LODZ UNIVERSITY OF TECHNOLOGY
Faculty of Mechanical Engineering (FME LUT)

Professor Jan Awrejcewicz, Ph.D., D.Sc.

AN OVERVIEW OF SCIENTIFIC ACHIEVEMENTS

Lodz 2022

Lodz, 2022-01-04

Professor Jan AWREJCEWICZ, Ph.D., D.Sc.

SUMMARY OF SCIENTIFIC ACHIEVEMENTS

Type of activity	Numerical data	
AUTHORSHIP/CO-AUTHORSHIP OF PUBLICATIONS		
– Scientific works published in journals with IF	**443**	(p. 11)
– Scientific works published in other journals	**126**	(p. 31)
– Papers (refereed) in international conferences proceedings	**293**	(p. 36)
– Papers (refereed) in national conferences proceedings	**68**	(p. 55)
Total Impact Factor	**716,235**	
– Monographs in English	**28**	(p. 59)
– Monographs in Russian	**1**	(p. 60)
– Monographs in Polish	**26**	(p. 61)
– Academic text books	**2**	(p. 62)
– Edited of books	**35**	(p. 62)
– Editorships of conferences' proceedings	**23**	(p. 63)
– Editor of journals' special issues (IS)	**43**	(p. 64)
– Chapters in books	**187**	(p. 65)
– Refereed post-conference articles in books	**23**	(p. 79)
– Other monograph publications	**10**	www.abm.p.lodz.pl
– Editorial preambules and introductions	**45**	www.abm.p.lodz.pl
– Announcements/Abstracts	**505**	www.abm.p.lodz.pl
– Engineering reports	**14**	www.abm.p.lodz.pl
– Other works	**9**	www.abm.p.lodz.pl
– Patents	**1**	(p. 80)
EDUCATING SCIENTIFIC STAFF/ASSESSMENTS		
– PhD theses supervisor/co-supervisor	**27**	(p. 81)
– Supervisor of ongoing PhD theses	**8**	(p. 82)
– Supervisor of habilitation theses	**7**	(p. 82)
– Supervisor over long-term, foreign apprenticeships for scientists	**32**	(p. 83)
– Master theses - supervisor	**17**	(p. 83)
– Bachelor theses - supervisor	**24**	(p. 84)
REVIEWS IN DOCTORAL PROGRAMS/QUALIFICATION PROCEDURES		
– Ph.D. reviews	**32**	(p. 86)
– Postdoctoral theses/habilitations reviews	**38**	(p. 87)
– Chairpeson of postdoctoral/habilitation committees	**59**	(p. 89)

Type of activity	Numerical data	
– Member of postdoctoral/habilitation committees	**4**	(p. 92)
– Reviewer - professor title	**19**	(p. 92)
– Reviewer - university professorship	**4**	(p. 92)
– Expert final review – professor title	**26**	(p. 92)
– Supervisor of doctors honoris causa of LUT	**3**	(p. 93)
– Referee - doctor honoris causa title	**2**	(p. 93)
Reviews of scientific works for foreign journals		
– Number of various journals	**124**	(p. 93)
– Estimated number of reviews	**500**	
Other assessments and reviews		
– Review of various research projects for KBN, MNiSW, NCN and FNP	**about 100**	(p. 96)
– Reviews of monographs/text books	**45**	(p. 96)
SCIENTIFIC RESEARCH ABROAD		
– Long-term stays	**14**	(p. 99)
– Short-term stays	**51**	(p. 100)
– Journals with the candidate's works	**97**	(p. 101)
– International conferences (active participation)	**203**	(p. 103)
– National conferences (active participation)	**46**	(p. 110)
– Research pojects – supervisor/principal investigator (PI)	**19**	(p. 112)
EDITOR/MEMBER OF JOURNALS' EDITORIAL COMMITTEES		
– Journals editor-in-chief	**3**	(p. 119)
– Member of journals editorial committees		
– Journals with IF	**21**	(p. 119)
– Other journals	**75**	(p. 119)
CONFERENCE ORGANISATION		
– Scientific and organizing committees - supervising	**24**	(p. 122)
– Organizer or/and chairman of conference sessions	**105**	(p. 124)
– Member of conferences' scientific committees	**221**	(p. 128)
PLENARY LECTURES/SEMINARS		
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Scientific discipline ***Mechanics***

Jan Awrejcewicz was born on 26 August 1952 in Telesze. He received the M. Sc and Ph.D degree in the field of Mechanics from the Lodz University of Technology in 1977 and 1981, respectively. What is more, in 1978, he graduated from University of Lodz with a degree in Philosophy, and in 1990 he received a D.Sc degree (habilitation) in the field of Mechanics from the Lodz University of Technology.

Professor Awrejcewicz is an author or co-author of **935** publications in scientific journals and national/international conference proceedings, **54** monographs, **2** text-books, **232** chapters in books, **35** edited volumes, **23** conference proceedings**, 43** journals special issues, **14** technical reports, **484** short communications, and **10** other works.

Professor J. Awrejcewicz is currently the Head of the Department of Automation, Biomechanics and Mechatronics which he had established. He is also the Head of Ph. D. studies in the field of Mechanics and the Head of the studies in the field of Mechatronics which are conducted at the Faculty of Mechanical Engineering at the Lodz University of Technology.

In 1994, he received the title of Professor from the President of Poland – Lech Wałęsa, and two years later in 1996, he obtained the gold cross of merit from next President of Poland – Aleksander Kwaśniewski.

Professor J. Awrejcewicz was and is a member of editorial committees of **96** foreing and national scientific journals form the field of mechanics and dynamical systems. He was also a member of scientific committees of **221** conferences, organised in different parts of the world. During his scientific journeys, he visited universities in **75** different countries, where he presented his readings and scientific research. His fields of interest and research include applied matehamatics, mechanics, biomechanics, automatics, physics and computer sciences.

Occupied positions and functions

1977-1980	PhD student – doctoral studies in the field of Dynamics and Control at Lodz University of Techology (LUT)
1981	Engineer – Institute of Mechanical Technology of Fibres LUT (6 months)
1981-1992	Assistant Professor– Institute of Applied Mechanics LUT
1985-1986	Researcher – Institute of Fundamental Technological Research (IPPT) at Polish Academy of Sciences (PAS), Warsaw (1 year)
1986	Resercher – The Stefan Banach Centre of Mathematics, PAN, Warsaw (6 months)
1987	Researcher – Department of Dynamic and Control, Strathclyde University, Glasgow (2 months)
1991	Researcher– Department of Mechanical Engineering, Tokyo University
1991-1992	Head of the Department of Dynamics of Machines and Control, LUT
1994-1998	Head of the Department of Control and Biomechanics, Institute of Turbomachinery, LUT
1995-1998	Head of the Ph.D. School on Material Systems Dynamics, LUT
1998-2013	Head of the Ph.D. School on Dynamical Systems, Faculty of Mechanical Engineering of LUT
1996-1998	Head of the Scientific-Research Group of the Polish Academy of Sciences and LUT
1998-	Head of the Department of Automatics and Biomechanics, LUT
1995-2000	Member of T07A i T11F Section from State Committee for Scientific Research (KBN)
1993-	Member of the Committee on Mechanics of the Polish Academy of Sciences **(elected)**
1999-2006	Member of the Committee of Biomedical Fabric of the Polish Academy of Sciences PAS (department in Łódź)
1997-2003	Chairman of the Faculty Committee of Science
1995-1996	Chairman of TEMPRA Programs
1999-2001	Chairman of POLONIUM Program
1999-	Chairman of SOCRATES/ERASMUS Programs
1999-	Chairman of seventeen research projects: State Committee for Scientific Research KBN, Ministry of Science and Higher Education MNiSW, National Science Centre NCN and Foundation for Polish Science (FNP)
2006-2012	Chairman of „Nonlinear Oscillations" Section of IFToMM (International Federation of Theory of Machines and Mechanisms) **(elected)**
2007-	Chairman of the field of study of Mechatronics LUT
2012-2014	Vicepresident of the Polish Society of Biomechanics **(elected)**
2012-2016	Member of Polish Committee of Theory of Machines and Mechanisms (TMM) from the Committee of Machine Building, PAS
2013-	Head of the Department of Automation, Biomechanics and Mechatronics, LUT
2013-2016	Member of the Central Commission of Degrees and Titles (MNiSW) **(elected)**
2016-2020	Member of the Team of Experts of the TMM Committee, PAS
2016-	Corresponding member of Polish Academy of Sciences **(elected)**
2016-2019	Member of the Executive Committee of the Academy of Engineering in Poland
2017-2020	Member of the Central Commission of Degrees and Titles (MNiSW) **(elected)**
2021-	Real member of Polish Academy of Sciences **(elected)**

2019-2022 Member of the Scientific Council of the Institute of Fundamental Technological Research Polish Academy of Sciences.

MAIN FIELDS OF SCIENTIFIC ACTIVITY

The Candidate's scientific activity includes following scientific disciplines: mechanics, applied mathematics, automation and biomedical engineering (biomechanics). The scientific activity, focuses on four, following fields:

1. *Asymptotic methods*

The scope of application of traditional asymptotic methods has been extended to the analysis of complex models of continuous mechanical systems (rods, plates, shells and thin-walled constructions) and strongly or weakly nonlinear discrete systems with various degrees of freedom. New methods of analysing strongly nonlinear systems have been suggested, e.g. δ method, Padé approximation or quasi-fractional approach. A method for determining the intersections of stable and unstable manifolds of homoclinic orbits has been developed, i.e. analytical criteria for the occurrence of deterministic chaos have been formulated.

2. *Nonlinear dynamics of lumped mass mechanical systems*

This field of study includes formulating theoretical basis and obtaining new results regarding the analysis of phenomena of solutions regarding bifurcation and deterministic chaos in multidimensional dynamic systems, establishing and implementing a software for global analysis of strongly nonlinear systems dynamics (including the definition of stability and bifurcation of periodic, quasi-periodic and chaotic orbits), determining theoretical basis for modelling and analysis of mechanical systems with friction and impacts, and also effective analytical and numerical methods for monitoring and controlling them.

3. *Dynamics, optimization and control of continuous systems*

Numerous original results have been obtained in this field. Some of them are presented below: (a) results connected with the stability of thin shells with small uplift subjected to thermal impacts, with taking into account dependence on temperature and both mechanical and thermal properties of structural members; (b) formulating three-dimensional notion of thermoelasticity for a cubical solid, and considering proper mathematical analysis and the stability of differential approximation; (c) establishing a method for solving all eliptic, parabolic and hyperbolic equations; (d) analysis of influence of coupling of the temperature field and the stress-strain state of the plates with regard to various kinds of non-stationary temperature fields, heterogeneous boundry conditions and impacts on the stress-strain state of the plates; (e) buckling of thin, cylindrical shells, resulting from the combination of static and thermal loads; (f) analysis of the influence of geometric parameters and boundry conditions on the beahviour of cylindric shells with heterogeneous thermoelastic load; (g) applying wavelet based analysis for bifurcation and chaos of plates and shells; (h) establishing the method for analysing vibrations with unilateral constraints; (i) new methods for analysis of spatial-temporal chaos.

4. *Biomechanical engineering*

Works aimed at a opplications concerning analysis of stress-strain state of cervical and lumbar part of the spine; modelling vocal cords; establishing and researching into mechanical properties of new endovascular stents (registered patent); modelling and investigation of dynamics of vocal cords; establishing new lumbar implant; experimental/numerical investigation of chosen human organs; modelling of ribs, chest, skull; implants; modelling muscles; dynamics and stability of human gait.

TECHNICAL AND SCIENTIFIC ACCOMPLISHMENTS

(most important achievements)

1. Establishing four scientific schools and obtaining numerous original outcomes in the fields of: (i) asymptotic methods; (ii) nonlinear dynamics of lumped mass mechanical systems; (iii) continuous systems dynamics; (iv) biomechanics.

2. Obtaining and publishing various original results in monographs and journals published by prestigious publishers.

3. Establishing and implementing numerous works that are performed for the industry.

Scientific activity of the Candidate includes applications and meaningful contribution to contemporary trends of nonlinear mechanics, such as: bifurcations, chaos, dynamics of non-smooth and smooth systems, methods for wavelet based analysis, contemporary methods for asymptotic analysis with their symbolic implementation, new methods for numerical analysis of systems described by partial differential equations (dynamics and thermo-dynamics of plates, shells and beams with various boundry conditions).

The Candidate's works constitue a meaningful contribution for contemporary nonlinear mechanics, automation and robotics, biomechanics, mathematics and applied physics, mechanics and mechatronics.

THE CANDIDATE'S BIBLIOMETRIC DATA

1. *Web of Science*

   Number of publications: **544**
   Number of citations: **3728**
   h-index: **29**

2. *Google Scholar*

   Number of citations: **10987**
   h-index: **48**
   i10-index: **287**

3. *Scopus*

   Number of publications: **651**
   Number of citations: **5173**
   h-index: **33**

4. *Publons*

   Number of publications: **1087**
   Number of citations: **3728**
   h-index: **29**

SCIENTIFIC ACCOMPLISHMENTS – list of publications

Scientific works published in journals with IF

1. J. Awrejcewicz, 'On the occurrence of chaos in Duffing's oscillator', *Journal of Sound and Vibration*, 108 (1), 1986, 176-178. **(IF 1.572)**

2. J. Awrejcewicz, 'Chaos in simple mechanical systems with friction', *Journal of Sound and Vibration*, 109 (1), 1986, 178-180. **(IF 1.572)**

3. J. Awrejcewicz, 'On the occurrence of chaos in Van der Pol-Duffing's oscillator', *Journal of Sound and Vibration*, 109 (3), 1986, 519-522. **(IF 1.572)**

4. T. Kapitaniak, J. Awrejcewicz and W.-H. Steeb, 'Chaotic behaviour of an anharmonic oscillator with almost periodic excitation', *J. Phys. A: Math. Gen*., 20, 1987, L355-L358. **(IF 1.542)**

5. J. Awrejcewicz, J. Barron, 'Chaotic motion of a cylindrical container on a non-linear suspension: experimental results', *Journal of Sound and Vibration*, 121 (3), 1988, 563-566. **(IF 1.572)**

6. J. Awrejcewicz, 'Determination of the limits of the unstable zones of the unstationary non-linear mechanical systems', *International Journal of Non-Linear Mechanics*, 23 (1), 1988, 87-94. **(IF 1.724)**

7. J. Awrejcewicz, 'A route to chaos in a nonlinear oscillator with delay', *Acta Mechanica*, 77, 1989, 111-120. **(IF 1.192)**

8. J. Awrejcewicz, 'Two kinds of evolution of strange attractors for the example of a particular non-linear oscillator', *J. Appl. Math. Phys. ZAMP*, 40, 1989, 375-386. **(IF 1.213)**

9. J. Awrejcewicz, J. Grabski, 'Chaos in a particular nonlinear oscillator', *Acta Mechanica* 79, 1989, 303-316. **(IF 1.192)**

10. J. Awrejcewicz, 'An analytical method for detecting Hopf bifurcation solutions in non-stationary non-linear systems', *Journal of Sound and Vibration*, 129 (1), 1989, 175-178. **(IF 1.572)**

11. J. Awrejcewicz, J. Mrozowski, 'Bifurcations and chaos of a particular Van der Pol - Duffing oscillator', *Journal of Sound and Vibration*, 132 (1), 1989, 89-100. **(IF 1.572)**

12. J. Awrejcewicz, 'Gradual and sudden transition to chaos in a sinusoidally driven nonlinear oscillator', *Journal of the Physical Society of Japan*, 58, 1989, 4261-4264. **(IF 2.128)**

13. J. Awrejcewicz, 'Bifurcation portrait of the human vocal cord oscillations', *Journal of Sound and Vibration*, 136 (1), 1990, 151-156. **(IF 1.572)**

14. J. Awrejcewicz, 'Bifurcations of the oscillations of the vocal cords', *Journal of Applied Mathematics and Mechanics ZAMM*, 70 (4), 1990, 100-101. **(IF 0.742)**

15. J. Awrejcewicz, J. Delfs, 'Dynamics of a self-exicted stick-slip oscillator with two degrees of freedom. Part I: investigation of equilibria', *European Journal of Mechanics, A/Solids*, 9 (4), 1990, 269-282. **(IF 1.534)**

16. J. Awrejcewicz, J. Delfs, 'Dynamics of a self-exicted stick-slip oscillator with two degrees of freedom. Part II: slip-stick, slip-slip, stick-slip transitions, periodic and chaotic orbits', *European Journal of Mechanics, A/Solids*, 9 (5), 1990, 397-418. **(IF 1.534)**

17. J. Awrejcewicz, 'Some comments about stability', *Journal of Sound and Vibration,* 137 (1), 1990, 159-160. **(IF 1.572)**

18. J. Awrejcewicz, W.-D. Reinhardt, 'Some comments about quasi-periodic attractors', *Journal of Sound and Vibration*, 139 (2), 1990, 347-350. **(IF 1.572)**

19. J. Awrejcewicz, W.-D. Reinhardt, 'Quasiperiodicity, strange non-chaotic and chaotic attractors in a forced two degrees-of-freedom system', *Journal of Applied Mathematics and Physics ZAMP*, 41, 1990, 713-727. **(IF 1.213)**

20. J. Awrejcewicz, 'Three routes to chaos in simple sinusoidally driven oscillators', *Journal of Applied Mathematics and Mechanics ZAMM*, 71 (2), 1991, 71-79. **(IF 0.742)**

21. J. Awrejcewicz, 'Determination of periodic oscillations in nonlinear autonomous discrete-continuous systems with delay', *International Journal of Solids and Structures*, 27 (7), 1991, 825-832. **(IF 2.067)**

22. J. Awrejcewicz, W.-D. Reinhardt, 'Observation of chaos in the nonautonomous system with two degrees of freedom', *Journal of Applied Mathematics and Mechanics ZAMM*, 71 (9), 1991, 357-360. **(IF 0.742)**

23. J. Awrejcewicz, 'Periodic and chaotic orbits in a mechanical system with three degrees of freedom', *Journal of Sound and Vibration,* 144 (1), 1991, 181-183. **(IF 1.572)**

24. J. Awrejcewicz, T. Someya, 'Periodic, Quasi-periodic and chaotic orbits and their bifurcations in a system of coupled oscillators', *Journal of Sound and Vibration*, 146 (3), 1991, 527-532. **(IF 1.572)**

25. J. Awrejcewicz, 'Numerical analysis of the oscillations of human vocal cords', *Nonlinear Dynamics*, **2**, 1991, 35-52. **(IF 1.776)**

26. J. Awrejcewicz, 'Numerical versus analytical conditions for chaos, using the example of the Duffing oscillator', *Journal of the Physical Society of Japan*, 60 (3), 1991, 785-788. **(IF 2.128)**

27. J. Awrejcewicz, T. Someya, 'Analytical condition for the existence of two-parameter family of periodic orbits in the autonomous system', *Journal of the Physical Society of Japan*, 60 (3), 1991, 781-784. **(IF 2.128)**

28. J. Awrejcewicz, 'Dynamics of the human vocal cords', *Journal of Theoretical and Applied Mechanics*, 29 (3-4), 1991, 557-577. **(IF 0.264)**

29. J. Awrejcewicz, 'Nonlinear dynamics of a two-body nonlinear mechanical system', *Computer Methods in Applied Mechanics and Engineering*, 91 (1-3), 1991, 1093-1108 **(IF=4.441)**

30. J. Awrejcewicz, T. Someya, 'A twisted horseshoe in the roll-slide oscillator', *Journal of the Physical Society of Japan*, 61 (5), 1992, 1556-1559. **(IF 2.128)**

31. J. Awrejcewicz, T. Someya, 'Analytical condition for the existence of two-parameter family of quasiperiodic orbits in the autonomous system (non-resonance case)', *Journal of the Physical Society of Japan*, 61 (7), 1992, 2231-2234. **(IF 2.128)**

32. J. Awrejcewicz, T. Someya, 'Analytical conditions for the existence of a two-parameter family of periodic orbits in nonautonomous dynamical systems', *Nonlinear Dynamics*, 4, 1993, 39-50. **(IF 1.776)**

33. J. Awrejcewicz, T. Someya, 'Periodic oscillations and two-parameter unfoldings in non-linear discrete-continuous systems with delay', *Journal of Sound and Vibration*, 160 (3), 1993, 566-573. **(IF 1.572)**

34. J. Awrejcewicz, T. Someya, 'On introducing inertial forces into non-linear analysis of spatial structures', *Journal of Sound and Vibration*, 163 (3), 1993, 545-548. **(IF 1.572)**

35. Awrejcewicz, 'Analytical condition for the existance of an implicit two-parameter family of periodic orbits in the resonance case', *Journal of Sound and Vibration*, 170 (3), 1994, 422-425. **(IF 1.572)**

36. J. Awrejcewicz, 'Combined analytical and numerical analysis of oscillations in the string-type generator', *ZAMM*, 74 (9), 1994, 432-434. **(IF 0.742)**

37. J. Awrejcewicz, 'Strange nonlinear behaviour governed by a set of four averaged amplitude equations', *Special Issue of Meccanica*, 31 (3), 1996, 347-361. **(IF 1.059)**

38. J. Awrejcewicz, V.A. Krysko, N. Kutsemako, 'Free vibrations of doubly curved in-plane non-homogeneous shells', *Journal of Sound and Vibration*, 225 (4), 1999, 701-722. **(IF 1.572)**

39. J. Awrejcewicz, C.-H. Lamarque, K.A. Broughan, 'Geometry and order of chaos', *International Journal of Bifurcation and Chaos* (review paper), 9 (2), 1999, 327-347. **(IF 0.981)**

40. J. Awrejcewicz, M.M. Holicke, 'Melnikov's method and stick-slip chaotic oscillations in very weekly forced mechanical systems', *International Journal of Bifurcation and Chaos*, 9 (3), 1999, 505-518. **(IF 0.981)**

41. J. Awrejcewicz, K. Tomczak, C.-H. Lamarque, 'Controlling system with impacts', *International Journal of Bifurcation and Chaos*, 9 (3), 1999, 547-553. **(IF 0.981)**

42. C.-H. Lamarque, O. Janin, J. Awrejcewicz, 'Chua systems with discontinuities', *International Journal of Bifurcation and Chaos*, 9 (4), 1999, 591-616. **(IF 0.981)**

43. T. Antosik, J. Awrejcewicz, 'Numerical and experimental analysis of the biomechanics of three lumbar vertebrae', *Special Issue of the Journal of Theoretical and Applied Mechanics*, 3 (37), 1999, 413-434. **(IF 0.264)**

44. J. Awrejcewicz, V.A. Krysko, '3D theory versus 2D approximate theory of the free orthotropic (isotropic) plates and shells vibrations. Part 1, derivation of governing equations', *Journal of Sound and Vibration*, 226 (5), 1999, 807-829. **(IF 1.572)**

45. J. Awrejcewicz, V.A. Krysko, '3D theory versus 2D approximate theory of the free orthotropic (isotropic) plates and shells vibrations. Part 2, numerical algorithms and analysis', *Journal of Sound and Vibration*, 226 (5), 1999, 831-871. **(IF 1.572)**

46. M. Ciach, J. Awrejcewicz, A. Maciejczak, M. Radek, 'Experimental and numerical investigations of C5-C6 cervical spinal segment before and after discectomy using the Cloward operation technique', *Acta of Bioengineering and Biomechanics*, 1 (1), 1999, 101-105. **(IF 0.432)**

47. J. Awrejcewicz, K. Włodarczyk, 'Intracoronary stents in ischaemic heart desease - numerical simulation', *Acta of Bioengineering and Biomechanics*, 1 (1), 1999, 47-50. **(IF 0.432)**

48. J. Awrejcewicz, I.V. Andrianov, 'Asymptotics for strongly nonlinear dynamical systems', *ZAMM, Z. Angew. Math, Mech*., 80, 2000, S265-S266. **(IF 0.742)**

49. J. Awrejcewicz, V.A. Krysko, 'Period doubling bifurcation and chaos exhibited by an isotropic plate', *ZAMM, Z. Angew. Math, Mech*., 80, 2000, S267-S268. **(IF 0.742)**

50. I.V. Andrianov, J. Awrejcewicz, 'Methods of small and large δ in the non-linear dynamics – a comparative analysis', *Nonlinear Dynamics*, 23, 2000, 57-66. **(IF 1.776)**

51. I.V. Andrianov, J. Awrejcewicz, 'Construction of periodic solutions to partial differential equations with non-linear boundary conditions', *International Journal of Nonlinear Sciences and Numerical Simulation*, 1 (4), 2000, 327-332. **(IF 3.760)**

52. I.V. Andrianov, J. Awrejcewicz, 'A role of initial conditions choice on the results obtained using different perturbation methods', *Journal of Sound and Vibration*, 236 (1), 2000, 161-165. **(IF 1.572)**

53. I.V. Andrianov, J. Awrejcewicz, 'Iterative determination of homoclinic orbit parameters and Padé approximants', *Journal of Sound and Vibration*, 240 (2), 2001, 394-397. **(IF 1.572)**

54. I.V. Andrianov, J. Awrejcewicz, 'New trends in asymptotic approaches: summation and interpolation methods', *Applied Mechanics Reviews*, 54 (1), 2001, 69-92. **(IF 2.559)**

55. J. Awrejcewicz, V.A. Krysko, 'Feigenbaum scenario exhibited by thin plate dynamics', *Nonlinear Dynamics*, 24, 2001, 373-398. **(IF 1.776)**

56. K. Włodarczyk, J. Awrejcewicz, M. Bąkała, 'Experimental and numerical investigation of mechanical properties of the intracoronary stents', *Acta of Bioengineering and Biomechanics*, **3** (2), *Proceedings of the 17th Conference of Biomechanic*s, Ed. J. Wojnarowicz, OW PW, Wrocław, 2001, 679-684 (in Polish). **(IF 0.432)**

57. K. Włodarczyk, J. Awrejcewicz, M. Bąkała, 'Intracoronary stents used in ischaemic heart disease – numerical calculations of mechanical properties of new implants', *Acta of Bioengineering and Biomechanics*, 3 (2), *Proceedings of the 17th Conference of Biomechanics*, Ed. J. Wojnarowicz, OW PW, Wrocław, 2001, 671-678. **(IF 0.432)**

58. I.V. Andrianov, J. Awrejcewicz, 'Asymptotic approaches to simplified boundary value problems non-linear dynamics', *Nonlinear Analysis*, 47, 2001, 2261-2269. **(IF 1.409)**

59. I.V. Andrianov, J. Awrejcewicz, 'Solutions in the Fourier series form, Gibbs phenomena and Pade approximants', *Journal of Sound and Vibration*, 245 (4), 2001, 753-756. **(IF 1.572)**

60. A. Maciejczak, M. Ciach, M. Radek, A. Radek, J. Awrejcewicz 'Immediate stiffness of the C5_C6segment after discectomy with the Cloward technique: an in vitro biomechanical study on human cadaveric model', *Neurosurgery*, 49 (6), 2001, 1399-1408. **(IF 4.006)**

61. J. Awrejcewicz, V.A. Krysko, A.V. Krysko, 'Spatial-temporal chaos and solitons exhibited by von Kármán model', *International Journal of Bifurcation and Chaos*, 12 (7), 2002, 1465-1513. **(IF 0.981)**

62. J. Awrejcewicz, Yu. Pyryev, 'Thermoelastic contact of a rotating shaft with a rigid bush in conditions of bush wear and stick-slip movements', *International Journal of Engineering Science*, 40, 2002, 1113-1130. **(IF 1.656)**

63. J. Awrejcewicz, M.L. Calvisi, 'Mechanical models of Chua's circuit', *International Journal of Bifurcation and Chaos* (Tutorial Paper), 12 (4), 2002, 671-686. **(IF 0.981)**

64. J. Awrejcewicz, I.V. Andrianov, 'Oscillations of non-linear system with restoring force close to sign(x)', *Journal of Sound and Vibration*, **252** (5), 2002, 962-966. **(IF 1.572)**

65. V.A. Krysko, J. Awrejcewicz, V. Bruk, 'On the solution of a coupled thermo-mechanical problem for non-homogeneous Timoshenko-type shells', *Journal of Mathematical Analysis and Applications*, 273 (2), 2002, 409-416. **(IF 1.345)**

66. J. Awrejcewicz, V.A. Krysko, 'Nonlinear coupled problems in dynamics of shells', *International Journal of Engineering Science*, 41 (6), 2003, 587-607. **(IF 1.656)**

67. I.V. Andrianov, J. Awrejcewicz, 'Compatibility equations in the theory of elasticity', *Journal of Vibration and Acoustics*, 125 (2), 2003, 244-245. **(IF 0.701)**

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EDUCATING SCIENTIFIC STAFF/ASSESSMENTS

SUPERVISION/LEADERSHIP

PhD theses supervisor/co-supervisor

1. J. Mrozowski, *Vibrations of a rectangular plate with a flow excitation*. Faculty of Mechanical Engineering of the Lodz University of Technology, Łódź, 1991 **(with prof. M. Potier-Ferry).**

2. M. Woźniak, *Control of energy steam in a planetary gear.* Faculty of Mechanical Engineering of the Lodz University of Technology, Łódź, 1993.

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4. T. Antosik, *Modelling statical and dynamical analysis of a human vertebral column using implants*. Faculty of Mechanical Engineering of the Lodz University of Technology, Łódź, 1998.

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9. M. Holicke, *Analysis of chaotic motions in simple mechanical systems with friction, using Mielnikov's method.* Faculty of Mechanical Engineering of the Lodz University of Technology, Łódź, 2004.

10. B. Supeł, *Experimental investigations and numerical analysis of simple chaotic mechanical models.* Faculty of Mechanical Engineering of the Lodz University of Technology, Łódź, 2005.

11. N. Saveleva, *Mathematical modelling of chaotic vibrations of closed cylindrical shells and panels. (in Russian).* Saratov State Technical University, Saratov, Russia, 2005 **(with prof. V.A. Krysko).**

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27. Adam Wijata, *Mathematical modeling and experimental studies of anisotropic dry friction*, Faculty of Mechanical Engineering of the Lodz University of Technology, 14.12.2020.

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1. DZYUBAK Larisa P. (UKRAINE) - (2000, 2002, 2003, 2004)
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32. NITACKE TABEKOUENG Zeric (CAMEROON) - (2021-2022)

Master theses - supervisor

It should be emphasized that three Master's Theses have been defended outside Candidate's original faculty, including one thesis defence in German, in Germany, one in French, in France, two in English at the International Faculty of Engineering in Lodz and three theses at the Institute of Mathematics at Lodz University of Technology.

1. K. Zalewski, *Analysis of the interaction of self-excited vibrations caused by dry friction and parametric vibrations in a mass system with a finite number of degrees of freedom,* Łódź, 1984

2. J. Delfs, *Untersuchung eines selbsterregten Roll-Reibschwingers mit zwei Freiheitsgraden*, Braunschweig, 1989, (with E. Brommundtem).
3. W.-D. Reinhardt, *Einfluß einer zweiten Masse auf die chaotische Bewegung eines nichtlinear* Feder-Masse-Schwingers, Braunschweig, 1989, (with E. Brommundtem).
4. R. Skiera, *Untersuchung der nichtlinearen Reibschwingungen eines Systems vom Freiheitsgrad zwei*, Braunschweig, 1989, (with E. Brommundtem).
5. P. Olejnik, *Regular and chaotic dynamics in a system with two degees of freedom*. Łódź, 2000.
6. G. Kacprzak, *Dynamique et Contrôle de Systemes Discrets Élasto-Plastiques Application an Couplage Bâtiments-Sol,* Łódź, 2000, (with C.-H. Lamarquiem).
7. M. L. Calvisi, *Mechanical models of Chua's circuit*, The University of California, Berkeley, 2001, (with L. O. Chua)
8. M. Bąkała, *Experimental research on stents.* Łódź, 2001.
9. B. Łuczak, *Metalic implants applied during operation of a funnel chest.* Łódź, 2003.
10. J. Janik, *Impact analysis of the human skull*, Łódź, 2004.
11. K. Konrad, *Analysis of singular points in the dynamical systemsgoverned by two and three first order ordinary differential equations,* Łódź, 2005.
12. A. Dąbrowska, *Analysis of simple, self-excited autoparametric systems,* Łódź, 2007.
13. L. Gorzkowska, *A numericla algorithm for symbolic computation of solutions and numerical analysis of the third-order differential equation.* Łódź, 2007.
14. J. Obrębski, *Development of an atomic force microscope scanner*, Łódź, 2010.
15. S. Banasiak, *Numerical modeling of human pelvic bone using finite element method*, Łódź, 2010.
16. W. Parandyk, *The construction and control of the mechatronic artifical arm powered by pneumatic muscles*, Łódź, 2012.
17. A. Szczotkowski, *Numerical and experimental analysis of spring pendulum system*, Łódź, 2013.

Bachelor theses- supervisor

1. W. Parandyk, *Prototype of an artificial arm powered by pneumatic muscles,* Łódź, 2011.
2. B. Stańczyk, *The sequence control model of manufacturing details transfered process,* Łódź, 2011.
3. D. Chachelski, *Phase control of single-phase asynchronous induction engine,* Łódź, 2011.
4. Ł. Kuryłek, *Construction of control-measurement system for analysis of dynamics single pendukum with forcing,* Łódź, 2011.
5. A. Brykowski, *Motion control of lift model using PLC controllers PLC,* 2011, Łódź.
6. R. Walczak, *PLC controllers- types, construction and applications,* Łódź, 2011.
7. R. Moszyński, *Industrial visual systems- applied in monitoring and control processes on the example of Intellect software,* Łódź, 2011.
8. P. Kubicki, *Visual systems in robotics,* Łódź, 2011,.
9. T. Dolata, *Project of a mobile circular wheeled robot platform,* Łódź, 2012.
10. A. Korzeń, *Control and visualisation of the spray lequering with a use of programmable logic controller (PLC),* Łódź, 2012.
11. A. Szczotkowski, *The use of a PLC controller and an inductive sensor in an industrial process on the example of a built-in transport system model,* Łódź, 2012.

12. A. Białkowski, *Two-wheel balancing robot-control,* Łódź, 2012.

13. K. Lorenc, *A balancing robot with a two-wheeled prototype of a mechanical model,* Łódź, 2012.

14. T. Szybka, *Mechatronic model of eye,* Łódź, 2012.

15. M. Esmond, *Dry friction coefficients measurement ecperimental setup. Project and reaisation of the mechanical part,* Łódź, 2013.

16. M. Swarbuła, *Stand to study the range of human body movement,* Łódź, 2013.

17. M. Graczyk, *Study of the dynamic characteristics of pneumatic muscles,* Łódź, 2013.

18. P. Dyszkiewicz, *Creating a PLC program for controlling a team body machine,* Łódź, 2013.

19. K. Pęcina, *Mobile roling robot- mechanical construction and wheel,* Łódź, 2014.

20. K. Wdowiak, *Control system of mobile roling robot,* Łódź, 2014.

21. A. Wijata, *Universal application mechanisms. Numerical simulations in applications for the Android operating system of selected pairs and kinematic chains*, Łódź, 2014.

22. K. Polczyński, *Construction and registration of the movement of physical pendulums connected by a flexible element and forced by a variable magnetic field*, Łódź, 2017.

23. M. Wojna, *Double physical pendulum with magnetic interaction - study of the form of motion, design and construction of the system for measuring magnetic forces*, Łódź, 2017.

24. B. Tyran, *Multimodal energy harvesting using a non-linear oscillator with self-excitation capability in electromagnetic field*, Łódź, 2020.

REVIEWS IN DOCTORAL PROGRAMS/QUALIFICATION PROCEDURES

Ph.D. reviews

1. K. Janicki, *Phenomenon of a subharmonic bifurcation, a jump and a transition into chaos in a non-linear oscillator.* Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk, Warszawa, 1994.
2. P. Sekar, *Chaotic vibrations in systems with contact and impact nonlinearities,* Indian Institute of Technology, Madras, India, 1995.
3. J. S. Faragher, *Stability improvement of periodic motion of helicopter blades,* Department of Mechanical and Manufacturing Engineering, The University of Melbourne, Melbourne, Australia, 1996.
4. W. Jabłoński, *Prediciton of chaotic states of a tool in an automized machining.* Akademia Górniczo-Hutnicza, Kraków, 1997.
5. T. Stręk, *Computer simulation of a chosen stages of mixing of two polymers.* Poznań, 2000.
6. K. Bizoń, *Dynamics of non-stationary states of electromechanical power transmissions,* Politechnika Śląska, Gliwice, 2000.
7. B. Ryczek, *Self-excited vibrations of lumped systems with dry friction; theory and experimental verification,* Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk, Warszawa, 2001.
8. I. Chuchnowska, *Modelling of dyanmical behaviour in a system of surgical robot,* Politechnika Śląska, Gliwice, 2004.
9. T. Wietecha, *Variational approach to Bäcklund transformation and Bogomolny decomposition for soliton equations,* Uniwersytet Jagieloński, Instytut Fizyki, Kraków, 2004.
10. K. Dziedzic, *Dynamics of rotors with active magnetic damping in bearings,* Wydział Samochodów i Maszyn Roboczych, Politechnika Warszawska, Warszawa, 2005.
11. Mohamed Sayed Mohamed Abd EL-Kader, *Improving the mathematical solutions of nonlinear differential equations using different control metods,* Menoufyia University, Shebeen El-Koom, Egypt, 2006.
12. M. Krajewski, *Dynamical analysis of power shovel accessories against impacts acting on a bucket edge,* Wydział Mechaniczny, Politechnika Łódzka, Łódź, 2008.
13. N. V. Kuznetsov, *Stability and oscillation of a dynamical system and applications,* University of Jyväskylä, Finland, 2008.
14. W. Wojnicz, *Modelling and simulation of the skeleton muscles of the forearm-arm system,* Wydział Mechaniczny, Politechnika Gdańska, Gdańsk, 2008.
15. M. Borowiec, *The study of nonlinear vibration of the suspension of mechanical vehicles,* Wydział Mechaniczny, Politechnika Lubelska, Lublin, 2008.
16. E. Kudryashova, *Cycles in continuous and discrete dynamical systems. Computations, computer assistant proofs, and computer experiments,* University of Jyväskylä, Finland, 2009.
17. E. Sieklicki, *Analysis of a micro electro-mechanical platform for laparoscopic surgery,* Wydział Mechaniczny, Politechnika Gdańska, Gdańsk, 2009.
18. K. Ogonowski, *Analysis of kinematics and dynamics of a system of an air missile homing guidance using a control gyroscopic platform,* Politechnika Świętokrzyska, Wydział Mechatroniki i Budowy Maszyn, Kielce, 2011 .
19. O. A. Kuznetsova, *Lyapunov quantities and limit cycles in two-dimensional dynamical systems: analytical methods, symbolic computation and visualization,* University of Jyväskylä, Finland, 2011.
20. J. Gralewski, *Influence of support and material properties on the stress-strain state of skeleton dental aid,* Politechnika Łódzka, Łódź, 2011.

21. P. S. Pavlovitch, *3D - computational models of a stress-strain state and strength of the system "bone-fixation" of joint ends of "shin-bones", T*he university of Dnepropetrovsk, 2011.

22. M. Bocheński, *Nonlinear vibrations and control of autoparametric beam structure,* Politechnika Lubelska, Lublin, 2012.

23. T. V. Yakovleva, *Mathematical modeling, numerical methods and programming,* Saratov State Technical University, Saratow, 2012.

24. V. Vagattsev's, *Analytical-numerical methods for finding hidden oscillations in dynamical systems,* University of Jyväskylä, Finland, 2012.

25. M. V. Zhigalov, *Mathematical and computing modeling of nonlinear distributed mechanical system,* Saratov State Technical University, Saratow, 2013.

26. E. Y. Krylova, *Mathematical modeling of complex oscillations of some distributed nonlinear dynamical systems,* Saratov State Technical University, Saratow, 2013.

27. A. Zaretskiy, *Mathematical models and stability analysis of three-phase synchronous machines,* University of Jyväskylä, Finland, 2013.

28. A. Zbilski, *Method for energy intensity analysis of manipulator and transportation processes,* Politechnika Śląska, Gliwice, 2013.

29. M. Nienartowicz, *Modelling and FEM analysis of the thermally optimal composite materials,* Politechnika Poznańska, Poznań, 2015.

30. Santhosh B. Shri, *Dynamics of nonlinear systems with discontinuous nonlinearities* Indian Institute of Technology, Madras, Chennai, India, 2015.

31. A.O. Dishkovskiy, *Mathematical homogenization models of the deformation processes and optimization of the parameters of the functionally gradiend structures,* The Dnepropetrovsk National University, Ukraine, 2016 (in Russian).

32. A. Waszczuk-Młyńska, Diagnosis of defects of the plate and membrane systems, Warsaw University of Technology, Warsaw, 2018.

Postdoctoral theses/habilitation reviews

1. C.-H. Lamarque, *Modelisation, identification, controle et traitement numerique des systemes en mecanique des vibrations,* Ecole Nationale des Travaux Publics de l'Etat, Vaulx-en-Velin, France, 1995.

2. D. Sado, *The energy transfer in nonlinearly coupled two-degree-of-freedom systems,* Biuletyn Naukowy Politechniki Warszawskiej, Warszawa, 1997.

3. R. Grądzki, *Influence of initial imperfections on post - buckling behaviour and ultimate load of thin-walled box-columns,* Biuletyn Naukowy Politechniki Łódzkiej, Łódź, 1998.

4. J. Strzałko, *Energetic correctness criterion of the motion equations and their solutions verification in machines dynamics,* Biuletyn Naukowy Politechniki Łódzkiej, Łódź, 1998.

5. J. Grabski, *Analysis of engineering machines dynamics using matrix methods,* Scientific Bulletin of Politechnika Łódzka, Łódź, 1998.

6. P. Fedeliński, *The boundary element method in dynamic analysis of structural elements with cracks,* Biuletyn Naukowy Politechniki Śląskiej, Gliwice, 2000.

7. J. Warmiński, *Regular and chaotic oscillations of parametric-self excited systems with ideal and non-ideal energy sources,* Wydawnictwo Politechniki Lubelskiej, Lublin, 2001.

8. M. Kotełko, *Plastic mechanisms of failure in thinn-walled girders of iso- and orthotropic walls,* Biuletyn Naukowy Politechniki Łódzkiej, Łódź, 2000.

9. A. John, *Identification and analysis of geometrical and mechanical parameters of a human pelvic bone,* Biuletyn Naukowy Politechniki Śląskiej, No. 1651, Gliwice, 2004.

10. D. Żardecki, *Modeling of freeplay and friction based on luz(...) and tar(...) projections - theory and application in simulation studies of nonlinear vibrations in car steering systems,* Warszawa, 2007.

11. T. Kubiak, *Interactional dynamic buckling of thin-walled columns,* Biuletyn Naukowy Politechniki Łódzkiej, Łódź, 2007.

12. C. Pezowicz, *Biomechanics of cervical segment spine. Estimation of overloading and implants implementation results,* Wydawnictwo Politechniki Wrocławskiej, Wrocław, 2008.

13. J. Margielewicz, *Numerical model ling In the diagnosis of biomechanical conditions of the stomatognatic system,* Wydawnictwo Polskiego Towarzystwa Inżynierii Medycznej, Zabrze, 2010.

14. J. Iwaniec, *Some Chosen Problems of Nonlinear Systems Identification*, Wydawnictwo AGH, Kraków, 2011.

15. M. Szczotka, *The finite element method in modeling of nonlinear offshore systems,* Wydawnictwo Politechniki Gdańskiej, Gdańsk, 2011.

16. C. Behn, *Mathematical modeling and control of biologically inspired uncertain motion systems with adaptive features,* Ilmenau University of Technology, Ilmenau, 2012.

17. K. Lipiński, *Multibody systems with unilateral constraints in application to modelling of complex mechanical systems,* Politechnika Gdańska, Gdańsk, 2012.

18. D. Cekus, *Modeling, model identification and simulations of the mechanical systems dynamics,* Politechnika Częstochowska, Częstochowa, 2013.

19. A. Krowiak, *Method of the Differential Quadratures Applied to Mechanical Problems,* Politechnika Krakowska, Kraków, 2013.

20. L. Baranowski, *Modeling, identyfication and numerical analysis of the ballistic objects flight dynamics for needs of the ground artillery fire control systems,* Wojskowa Akademia Techniczna, Warszawa, 2013.

21. E. Szymczyk, *Numerical analysis of local phenomena in rivet joints of the aircraft structures,* Wojskowa Akademia Techniczna, Warszawa, 2013.

22. M. Sikoń, *Analysis of the Cosserat medium on the basis of the atomic structure of matter,* Politechnika Krakowska, Kraków, 2013.

23. J. Tuśnio, *Problems of detection, control and location of flying object during guidance and attact the high-voltage electric power transmission line,* Czestochowa University of Technology, Częstochowa, 2013.

24. B. Tomczyk, *Lenght-scale effect in dynamics and stability of thin periodic cylindrical shells,* Politechnika Łódzka, Łódź, 2013.

25. M. Mrzygłód, *Topological optimization algorithm of continuous structures with fatigue limitations,* Politechnika Krakowska, Kraków, 2013.

26. C. Lachowicz, *Energy method for fatigue analysis of materials, machine components and structures,* Wojskowa Akademia Techniczna, Warszawa, 2013.

27. G. Kokot, *Evaluation of bone tissues mechanical properties using digital image correlation, nanoindentation and numerical simulations,* Politechnika Śląska, Gliwice, 2013.

28. M. Pawlikowski, *Costitutive modelling of bone tissue and polyurethane materials for orthopedical applications,* Politechnika Warszawska, Warszawa, 2013.

29. M. Trojnacki, *Dynamics modeling of wheeled mobile robots,* Politechnika Śląska, Gliwice, 2014.

30. C. Rzymkowski, *Modelling and simulation of impact phenomena in biomechanics,* Politechnika Warszawska, Warszawa, 2014.

31. M. Major, *Modeling of wave phenomena in hyperelastic Zahorski material,* Politechnika Częstochowska, Częstochowa, 2014.

32. A. Kulawik, *The modelling of the phenomena of the heat treatment of the medium carbon steel,* Politechnika Częstochowska, Częstochowa, 2014.

33. W. Błażejewski, *Composite pressure vessels reinforced with fibers according to mosaic patterns,* Politechnika Wrocławska, Wrocław, 2014.

34. M. Łuczak, *Identification of the influence of variability of dynamic parameter measurements in composite structures on the accuracy of numerical model updating with uncertain parameters,* Instytut Maszyn Przepływowych Polskiej Akademii Nauk, Gdańsk, 2014.

35. A. Burghardt, *Modeling and control of robots formation,* Politechnika Rzeszowska, Rzeszów, 2014.

36. J. Filipiak, *The influence of mechanical stimulation on the properties of bone regenerate,* Politechnika Wrocławska, Wrocław, 2014.

37. P. Czubak, *Selected problems of the conveyors dynamics,* Akademia Górniczo-Hutnicza, Kraków, 2014.

38. V.A. Gromov, *Models, methods, and algorithms of bifurcation theory for the nonlinear elliptic equations of the von Karman-type*, Oles Honchar Dnipropetrovsk National University of Education and Science of Ukraine, Dnipro, 2017, in English.

Chairperson of postdoctoral/habilitation committees

1. P. Paczos, *Stability and limit load of cold-formed thin-walled beams,* Politechnika Poznańska, Poznań, 2014.

2. A. Dymarek, *Active and pasive vibration reduction of mechanical systems depending the synthesis method,* Politechnika Śląska, Gliwice, 2014.

3. K. Kosała, *Singular value decomposition in the investigation of vibroacoustic processes - evaluation and development of acoustic properties of selected objects,* Akademia Górniczo-Hutnicza, Kraków, 2014.

4. W. Olędzki, *Steel nonlinear springs and steel progressive vehicle suspensions, especially road and off-road,* Uniwersytet Warszawski, Warszawa, 2015.

5. M. Sawczak, *Non-invasive spectroscopic techniques in the diagnostics of materials - application in diagnostics of cultural heritage objects* (series selected below publications), Polish Academy of Sciences, The Szewalski Institute of Fluid-Flow Machinery, Department of Photophysics, 2016.

6. R. Michnik, *Model research and experimental tests on human gait in view if the rehabilitation process*, Mechanical Technological Faculty of the Silesian University, 2016, in Polish.

7. A. Szarek, *Biomechanical and biomaterial determinants of aseptic loosening of human hip joint prostheses*, Faculty of Mechanical Engineering and Computer Science, Czestochowa University of Technology, 2016, in Polish.

8. J. Lewiński, *A series of articles devoted to the formation of shell of thin-walled pressure vessel*, Faculty of Applied Mechanics, Poznan University of Technology, 2016, in Polish.

9. P. Kudela, *Anomalies of full field od Lamb waves in application for damage identification,* IMP PAN, Gdańsk, 2016, in Polish.

10. J. Hoffmann, *The experimental study of the ablation of graphite by a nanosecond laser pulse*, IMP PAN, Gdańsk, 2016, in Polish.

11. W. Rączka, *Mechatronic systems with SMA actuators*, AGH University of Science and Technology, Cracow, 2016, in Polish.

12. K. Nalepka, *Construction of effective method of strength estimation of the coupling of transitional layers metal/ceramics*, AGH University of Science and Technology, Cracow, 2017, in Polish.

13. I. Krzysztofik, *Problems of the dynamics and control of observation, scanning, and tracking systems on a mobile basis*, Military University of Technology, Warsaw, 2017, in Polish.

14. A. Adamowicz, *Numerical modelling of thermal and mechanical processes occuring in the friction elements of braking systems*, Białystok University of Technology, Białystok, 2017, in Polish.

15. A. Syta, *Numerical investigations of selected nonlinear dynamical systems with memory effects*, Lublin University of Technology, Lublin, 2017, in Polish.

16. S. Noga, *Analytical and numerical problems of systems with circular symmetry vibrations*, Rzeszow University of Technology, Rzeszow, 2017, in Polish.

17. P. Malinowski, *Assessement of degradation level of structural parts made of isotropic and anisotropic materials - contact and non-contact methods*, IMP Polish Academy of Sciences, Gdańsk, 2017, in Polish.

18. M. Jasiński, *Mathematical modeling of tissue damage process caused by external heat sources*, Silesian University of Technology, Gliwice, 2017, in Polish.

19. A. Rysak, *Research of the dynamics of gas structures in two-phase flow with the use of selected numerical methods*, Lublin University of Technology, Lublin, 2017, in Polish.

20. S. Noga, *Analytical and numerical problems of systems with circular symmetry vibrations*, Rzeszow University of Technology, Rzeszow, 2018, in Polish.

21. T. Błaszczyk, *Numerical methods for solving fractional order derivatives differential equations applied in mechanics*, Częstochowa University of Technology, Częstochowa, 2018, in Polish.

22. J.J. Kyzioł, *Metamorphosis of amplitude profiles of non-linear oscillators in the vicinity of singular points*, Military University of Technology, Warsaw, 2018, in Polish.

23. A. Wróbel, *Classical and non-classical research methods and experimental studies of piezoelectronic plates*, Silesian University of Technology, Gliwice, 2018, in Polish.

24. M. Mieloszyk, *Methods for assessment of physico-chemical and mechanical degradation degree of structural elements working in varying humidity or temperature conditions - contact and non-contact methods*, IMP Polish Academy of Sciences, Gdańsk, 2019, in Polish.

25. A. Gallina, *Methods analysis of uncertainties and their application in engineering*, AGH University of Science and Technology, Cracow, 2019, in Polish.

26. A. Bołtuć, *Parametric integral equation system (PIES) for 2D static elastoplastic problems*, Białystok University of Technology, Białystok, 2019, in Polish.

27. K. Sokół, *Vibration and stability of columns with piezoelectric elements subjected to specyfic load*, Częstochowa University of Technology, Częstochowa, 2019, in Polish.

28. T. Ochrymiuk, *Numerical modelling of cooling of temperature high-loaded gas turbine blades*, Institute of Turbomachinery, PAS, Gdańsk 2019, in Polish.

29. J. Ptaszny, *Analysis of space linearly elastic systems using fast multi-pole method of finite elements*, Silesian University of Technology, Gliwice, 2019, in Polish.

30. K. Szemela, *Radiation of flat sound sources in baffle patterns*, AGH University of Science and Technology, Cracow, 2019, in Polish.

31. M. Pietraszek, *Modeling and simulation of dynamics of a guided bomb*, Technical Institute of Air Forces, Warsaw, 2019, in Polish.

32. P. Grześ, *Numerical modeling of heat generation in disc brakes with an account of mutual influence of friction, temperature, material thermal sensitivity and convection cooling*, Bialystok University of Technology, Bialystok, 2019, in Polish.

33. K. Kurc, *Modern tools of mechatronic design in robotics*, Rzeszow University of Technology, Rzeszow, 2019, in Polish.

34. P. Gierlak, *Synthesis of robotic manipulator movement including environmental interaction*, Rzeszow University of Technology, Rzeszow, 2019, in Polish.

35. D. Buczkowski, *Investigations on the detonation properties of ammonium nitrate and explosives containing ammonium nitrate*, Military University of Technology, Warsaw, 2019, in Polish.

36. M. Banaszkiewicz, *Modeling and monitoring of thermal stress and lifetime of steam turbines operating in fatigue and creep conditions*, IMP, Polish Academy of Sciences, Gdańsk, 2019, in Polish.

37. V. Hutsaylyuk, *Analysis of the effect of combined preload on the maintenance of mechanical properties of selected aluminum alloys under variable load conditions*, Military University of Technology, Warsaw, 2019, in Polish.

38. W. Mikulski, *Determining the impact of acoustic adaptation elements on the acoustic properties of the environment, in rooms for word presentations and open space office spaces*, AGH University of Science and Technology, Cracow, 2020, in Polish.

39. M. Kubiak, *Numerical modeling of heat and structural phenomena in the heating and welding of steel concentrated heat sources*, Częstochowa University of Technology, Częstochowa, 2020, in Polish.

40. E. Gawrońska, *Numerical modeling and computer simulations of selected thermo-mechanical phenomena embedded in proprietary high performance program*, Częstochowa University of Technology, Częstochowa, 2020, in Polish.

41. J. Wołoszyn, *The impact of material, construction and operational parameters on the efficiency of underground thermal energy storage*, AGH University of Science and Technology, Cracow, 2020, in Polish.

42. I. Czajka, *Modeling of acoustic phenomena in aerodynamic flows at high Reynolds numbers and small Mach numbers*, AGH University of Science and Technology, Cracow, 2020, in Polish.

43. J. Tutak, *Innovative solutions in mechatronic devices supporting the rehabilitation of people after strokes*, Rzeszow University of Technology, Rzeszow, 2020, in Polish.

44. L. Matuszewski, *Ship ring electric power units - identification and research of critical technologies*, Gdańsk University of Technology, Gdańsk 2020, in Polish.

45. M. Pluta, *Sound synthesis for music reproduction and performance*, AGH University of Science and Technology, Cracow, 2020, in Polish.

46. R. Pawliczek, *Consideration of the static component in bending for fatigue block loads*, Opole University of Technology, Opole, 2020, in Polish.

47. E.E. Rożko, *Affine models in quantum terms in the mechanics of systems with micro- and nanostructures*, IPPT PAN, Warsaw, 2020, in Polish.

48. J. Szwedowicz, *Modification of the methodology of designing steam and gas turbine blades and turbochargers, taking into account high-cycle fatigue of the material and the influence of mechanical contact on vibrations*, AGH University of Science and Technology, Cracow, 2020, in Polish.

49. A. Kubit, *Analysis of the properties of joints of EN AW-7075-T6 Alclad aluminum alloy sheets welded with the friction stir method in the production of thin-walled structures*, Rzeszow University of Technology, Rzeszow, 2021, in Polish.

50. M. Szczęch, *Research on selected issues of maintaining the continuity of a liquid ring formed by a magnetic liquid*, AGH University of Science and Technology, Cracow, 2021, in Polish.

51. W. Horak, *The development of theoretical and experimental research methods for technical systems with liquids with controlled rheological properties*, AGH University of Science and Technology, Cracow, 2021, in Polish.

52. K. Rogowski, *Modeling of wind turbines with a vertical axis of rotation using numerical methods of fluids mechanics*, Warsaw University of Technology, Warsaw, 2021, in Polish.

53. L. Gałda, *Multifaceted analysis of the influence of topography of sliding surfaces on the tribological properties of machine nodes in the lubricating contact*, Rzeszow University of Technology, Rzeszow, 2021, in Polish.

54. W. Paszkowski, *Methodology of noise nuisance assessment using modeling of subjective sound characteristics*, AGH University of Science and Technology, Cracow, 2021, in Polish.

55. R. Wojnar, *Mathematical physics of transfer phenomena in homogeneous and heterogeneous media: heat, mass and momentum transfer*, IPPT PAN, Warsaw, 2021, in Polish.

56. P. Małka, *Mechatronics in intelligent water supply and sewage systems*, Rzeszow University of Technology, Rzeszow, 2021, in Polish.

57. P. Woś, *Consolidation of mechatronic systems in the field of design, modeling, control and testing of fluid devices*, Kielce University of Technology, Kielce, 2022, in Polish.

58. A. Jabłoński, *Condition monitoring algorithms in MATLAB*, AGH University of Science and Technology, Cracow, 2022, in Polish.

59. Ł. Ambroziński, *Non-destructive testing of materials with the use of elastic waves*, AGH University of Science and Technology, Cracow, 2022, in Polish.

Member of postdoctoral/habilitation committees

1. S. Uzhny, *Problems of detection, aim localization and control of flying object during homing and attack on high voltage transmission line,* Politechnika Częstochowska, Częstochowa, 2013.

2. I. Lubowiecka, *Selected problems of mathematical modeling and simulation of engineering and biomechanical structures,* Politechnika Gdańska, Gdańsk, 2014.

3. V. Kovalchuk, *The collection of works on the dynamic properties of affine rigid bodies on non-Euclidean manifolds,* Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk, Warszawa, 2014.

4. T. Dzitkowski, *Synthesis of driving systems regarding their required dynamical properties*', Silesian University of Technology, Gliwice, 2016, in Polish.

Reviewer – professor title

1. Lesław Socha, Cardinal Stefan Wyszyński Univeristy in Warsaw, Warsaw
2. Tadeusz Niezgodziński, Lodz University of Technology, Lodz
3. Zbigniew Domański, Częstochowa University of Technology, Częstochowa
4. Dorota Kozanecka, Lodz University of Technology, Lodz
5. Jacek Leszczyński, Częstochowa University of Technology, Częstochowa
6. Zbigniew Kozanecki, Lodz University of Technology, Lodz
7. Ryszard Grądzki, Lodz University of Technology, Lodz
8. Krzysztof Kaliński, Gdansk University of Technology, Gdańsk
9. Lesław Socha, Cardinal Stefan Wyszyński Univeristy in Warsaw, Warsaw
10. Roman Kulchytskyy, Bialystok University of Technology, Bialystok
11. Grzegorz Litak, Lublin University of Technology, Lublin
12. Ludwik Kania, Częstochowa University of Technology, Częstochowa
13. Ahmad Harb, School of Natural Resources Engineering and Management German-Jordanian University, Amman
14. Włodzimierz Klonowski, Silesian University of Technology, Gliwice
15. Jarosław Sęp, Bialystok University of Technology, Bialystok
16. Małgorzata Klimek, Częstochowa University of Technology, Częstochowa
17. Gabriel Kost, Silesian University of Technology, Gliwice
18. Jamshed Iqbal, University of Jeddah, Saudi Arabia
19. Osama Refaei Moaaz, King Fahd University of Petroleum and Minerals, Saudi Arabia

Reviewer - university professorship

1. Jacek Przybylski, Częstochowa University of Technology, Częstochowa
2. Piotr Przybyłowicz, Warsaw University of Technology, Warsaw
3. Antoni John, Silesian University of Technology, Gliwice
4. Elżbieta Jarzębowska, Warsaw University of Technology, Warsaw

Expert final review – professor title

1. Maria Ekiel-Jeżewska, Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw
2. Jacek Przybylski, Czestochowa University of Technology, Czestochowa
3. Artur Ganczarski, Tadeusz Kosciuszko University of technology, Krakow
4. Marek Gzik, Silesian University of Technology, Gliwice
5. Jerzy Wiciak, AGH University of Science and Technology, Krakow
6. Wojciech Rdzanek, AGH University of Science and Technology, Krakow
7. Piotr Kleczkowski, AGH University of Science and Technology, Krakow
8. Jacek Pozorski, Polish Academy of Sciences PAN, Warsaw
9. Jerzy Małachowski, WAT, Warsaw
10. Anna Kucaba-Piętal, Rzeszow University of Technology, Rzeszów
11. Anna Snakowska, Cracow University of Science and Technology, Cracow
12. Zygmunt Lipnicki, Zielona Góra University, Zielona Góra
13. Artur Tyliszczak, Czestochowa University of Technology, Częstochowa
14. Andrzej Teter, Lublin University of Technology, Lublin (title/expert)
15. Tomasz Barszcz, AGH University of Science and Technology, Cracow (title/expert)
16. Adam Niesłony, Opole University of Technology, Opole (title/expert)
17. Mirosław Nowakowski, Military Technical Academy WAT, Warsaw (title/expert)
18. Piotr Wrzecioniarz, Wrocław University of Technology, Wrocław (title/expert) RDN
19. Piotr Przybyłowicz, Warsaw University of Technology, Warsaw (title/expert)
20. Elżbieta Pieczyska, FTR PAS, Warsaw (title/expert)
21. Przemysław Simiński, Air Force Institute of Technology, Warsaw (title/expert) RDN
22. Damian Słota, Silesian University of Technology, Gliwice (title/expert) RDN
23. Krzysztof Naplocha, Wrocław University of Technology, Wrocław (title/expert) RDN
24. Anna Rudawska, Lublin University of Technology, Lublin (title/expert) RDN
25. Dariusz Kardaś, Institute of Fluid-Flow Machinery of the Polish Academy of Sciences, Gdańsk (title/expert) RDN
26. Ryszard Wójcik, Academy of Jakub from Parydaż, Gorzów Wielkopolski (title/expert) RDN

Supervisor of doctors honoris causa of the Lodz University of Technology

1. Professor Tsuneo SOMEYA (Tokyo University, Japan) - 2.10.2003
2. Professor Vadim A. KRYSKO (Saratov State University, Russia) – 8.05.2013
3. Profesor Peter HAGEDORN (Darmstadt Technical University, Germany) – 12.12.2017

Referee - Doctor Honoris Causa title of the Szczecin University of Technology

1. Professor Ali H. Nayfeh (University of Virginia, Blacksburg, USA) - 31.05.2004.

2. Profesor M. Kleiber (IPPT PAN) - West Pomeranian University of Technology, Szczecin, 09.03.2020.

Reviews of scientific works for foreign journals

1. *Permanent Reviewer - Mathematical Reviews*
2. *Permanent Reviewer - Zentralblatt MATH*
3. *Acta Mechanica*
4. *Acta Mechanica et Automatica*
5. *Acta Mechanica Sinica*
6. *Acta of Bioengineering and Biomechanics*
7. *Advances in Acoustic and Vibrations*
8. *Advances in Mathematical Physics*
9. *Aerospace Science and Technology*
10. *Annals of Agrarian Science*
11. *Applied Mathematical Modelling*
12. *Applied Mathematics and Computation*
13. *Applied Mechanics and Materials*
14. *Applied Mathematics Letters*
15. *Applied Mechanics Reviews*
16. *Applied Soft Computing*
17. *Applied Surface Science (Elsevier)*
18. *Applications and Applied Mathematics: An International Journal (AAM)*
19. *Archive of Applied Mechanics*
20. *Archive of Mechanical Engineering*
21. *Archives of Civil Engineering*
22. *Archives of Civil and Mechanical Engineering*
23. *Archives of Control Sciences*
24. *ASME Journal of Applied Mechanics*
25. *Biocybernetics and Biomedical Engineering*
26. *British Journal of Mathematics and Computer Science*
27. *Case Studies in Mechanical Systems and Signal Processing*
28. *Chaos, Solitons and Fractals*
29. *Circuit, Systems and Signal Processing*
30. *Composite Structures*
31. *Computer-Aided Civil and Infrastructure Engineering*
32. *Computer Assisted Mechanics and Engineering Sciences*
33. *Computer Assisted Methods and Engineering and Science*
34. *Computer Methods in Applied Mechanics and Engineering*
35. *Computers and Structures*
36. *Communication in Nonlinear Science and Numerical Simulation*
37. *Differential Equations and Dynamical Systems*
38. *Differential Equations and Nonlinear Mechanics*
39. *Engineering Computations*
40. *Engineering Modeling Journal*
41. *Entropy*
42. *European Journal of Mechanics*
43. *Information Sciences*
44. *International Journal of Applied Mechanics*
45. *International Journal of Applied Mechanics and Engineering*
46. *International Journal of Bifurcation and Chaos*
47. *International Journal of Computers and Structures*
48. *International Journal of Electrical Power and Energy Systems*
49. *International Journal of Mechanic Systems Engineering*
50. *International Journal of Mechanics and Materials in Design*
51. *International Journal of Nonlinear Sciences and Numerical Simulations*
52. *International Journal of Non-Linear Mechanics*
53. *International Journal of Numerical Methods for Heat and Fluid Flow*

54. *International Journal of Physcial Sciences*
55. *International Journal of Solid and Structures*
56. *International Journal of Turbulence*
57. *International Scholary Research Network Tribology*
58. *Inverse Problems in Science and Engineering*
59. *Iranian Journal of Science and Technology*
60. *Journal Biocybernetics and Biomedical Engineering*
61. *Journal of Applied Analysis*
62. *Journal of Applied Mathematics*
63. *Journal of Applied Mathematics and Computer Science*
64. *Journal of Applied Physical Science International*
65. *Journal of Automobile Engineering, Proceedings of the Institution of Mechanical Engineers, PartLodz*
66. *Journal of Biomechanics*
67. *Journal of Civil Engineering and Science*
68. *Journal of Computational and Applied Mathematics*
69. *Journal of Computational and Nonlinear Dynamics*
70. *Journal of Computational Methods in Science and Engineering*
71. *Journal of Dynamics of Machines*
72. *Journal of Egyptian Mathematical Socoiety*
73. *Journal of Engineering in Medicine*
74. *Journal of Engineering Mathematics*
75. *Journal of Engineering Mechanics*
76. *Journal of Mathematical Analysis and Application*
77. *Journal of Mechanical Engineering Science, Proceedings of the Institution of Mechanical Engineers, Part C*
78. *Journal of Mechanics of Materials and Structures*
79. *Journal of Shock and Vibration*
80. *Journal of Sound and Vibration*
81. *Journal of Technical Physics*
82. *Journal of Theoretical and Applied Mechanics*
83. *Journal of The Franklin Institute*
84. *Journal of Vibration and Control*
85. *Journal of Vibrations in Physical Systems*
86. *Journal of Zhejiang University SCIENCE A*
87. *KSCE Journal of Civil Engineering*
88. *Kuwait Journal of Science*
89. *Machine Dynamics Problems*
90. *Mathematical Problems in Engineering*
91. *Meccanica*
92. *Mechanical Systems and Signal Processing*
93. *Mechanics Based Design of Structures and Machines: An International Journal*
94. *Mechanics Research Communications*
95. *Mechanism and Machine Theory*
96. *Mechatronics*
97. *Medical Engineering and Physics*
98. *Microsystem Technologies*
99. *Neurocomputing*
100. *Nonlinear Analysis: Real World Applications*
101. *Nonlinear Analysis: Theory, Methods and Applications*
102. *Nonlinear Dynamics*
103. *Nonlinear Vibration Problems*
104. *Ocean Engineering*
105. *Physica A*
106. *Physica D. Nonlinear Phenomena*
107. *Physica Polonica A*
108. *Physics Letters A*
109. *Procedia IUTAM*

110. *Recent Patents on Mechanical Engineering, Bentham Science Publishers Ltd.*
111. *Scientific Bulletin of the Technical University of Lodz*
112. *Scientific Journal for Damietta Faculty of Science (Egypt)*
113. *SciFed Journal of Astrophysics*
114. *Sensors and Actuators*
115. *Soochow Journal of Mathematics*
116. *The Open Applied Mathematics Journal*
117. *The Open Mechanical Engineering Journal, Bentham Science Publishers*
118. *The Scientific World Journal*
119. *The Technical Journal of the Cracow University of Technology*
120. *Thin-Walled Structures*
121. *Tribology International*
122. *Tribology Transaction*
123. *Wind Energy*
124. *Zeitschift für Angewandte Mathematik und Mechanik*

OTHER ASSESSMENTS AND REVIEWS

Review of various research projects for KBN, MNiSW, NCN and FNP

- State Commitee for Scientific Research (KBN) – 70 applications
- Ministry of Science and Higher Education – 40 applications
- Foundation of Polish Science
  - VENTURES Programme
  - WELCOME Programme
  - POMOST - 2 proposals
- National Science Centre (NCN) – 20 applications
- Aaustrian Science Fund (FWF) – 1 application
- Ministry of Education and Science of the Russian Federation – 20 applications

Reviews of monographs/text-books

1. R. Andrzejewski, 'Stability of motion of cars', WNT, Warsaw 1997 (ISBN 83-204-2220-5), in Polish
2. R. Grądzki, 'Influence of initial imperfections on post - buckling behaviour and ultimate load of thin-walled box-columns', Scientific Bulletin of the Technical University of Lodz, Lodz, 1998 (ISSN 0137-4834), in Polish
3. J. Grabski, 'Analysis of engineering machines dynamics using matrix methods', Scientific Bulletin of the Technical University of Lodz, Lodz, 1998 (ISSN 0137-4834), in Polish
4. J. Strzałko, 'Energetic correctness criterion of the motion equations and their solutions verification in machines dynamics', Scientific Bulletin of the Technical University of Lodz, Lodz, 1998 (ISSN 0137-4834), in Polish
5. L. P. Shilnikov, A. L. Shilnikov, V. Turaev, L. O. Chua, 'Methods of analitative theory in nonlinear dynamics', Part I and Part II, World Scientific Series on Nonlinear Science, Series A, vol. 4, World Scientific, Singapore, New Jersey - London - Hong Kong, 1998 (ISBN 981-02-3382-5)
6. J. Kruszewski, St. Sawiak, E. Wittbrodt, 'Finite elements method in dynamics of constructions', WNT, Warsaw, 1999 (ISBN 83-204-2336-8), in Polish
7. J. Grabski, B. Mianowski, J. Strzałko, 'Some problems in mechanics', Scientific Bulletin of the Technical University of Lodz, Lodz, 1999 (ISBN 83-87198-64-1), in Polish

8. P. Fedeliński, 'The boundary element method in dynamic analysis of structural elements with cracks' , Scientific Bulletin of the Silesian University of Technology, Gliwice, 2000 (ISSN 0434-0817), in Polish
9. M. Kunze, 'Non-Smooth Dynamical Systems', Lecture Notes in Mathematics 1744, Springer-Verlag, Berlin - Heidelberg 2000 (ISSN 0075-8434)
10. J. Kłosiński, 'The working motions control in mobile crane ensuring proper position of carried load', Scientific Bulletin of the Technical University of Lodz, Branch in Bielsko-Biala, 2000 (ISSN 0867-3128), in Polish
11. B. Posiadała, 'Modeling and investigation of dynamical behaviour of telescopic jibs and mobile cranes', WNT, Warsaw, 2000 (ISBN 83-204-2628-6), in Polish
12. J. Warmiński, 'Regular and chaotic oscillations of parametric-self excited systems with ideal and non-ideal energy sources', Lublin University Technology of Press, Lublin, 2001 (ISBN 83-8810-03-9), in Polish
13. L. Tomski, 'Vibrations and stability of slender systems', WNT, Warsaw, 2003, in Polish
14. B. K. Shivamoggi, 'Perturbation Methods for Differential Equations', Birkhauser Boston, Cambridge, 2003
15. Yu. Pyr'yev, 'Dynamics of Contacting Systems with an Account of Heat Transfer, Friction and Wear', Scientific Bulletin of the Technical University of Lodz, No. 936, Lodz, 2004 (ISSN 0137-4834), in Polish
16. G. Kost, 'Planning of Safety Manipulating Tracks and Stationary Industrial Robots Using Markov's Processes and Function Evaluation', Scientific Bulletin of the Silesian University of Technology, No. 1655, Gliwice, 2004 (ISSN 0434-0817), in Polish
17. B. Posiadała, S. Kukła, J. Przybylski, T. Geisler, W. Sochacki,Lodz. Cekus, R. Wilczak, 'Modeling, Identification and Investigation of Mobile Cranes Dynamics', WNT, Warsaw, 2005
18. A. John, 'Identification and analysis of geometrical and mechanical parameters of a human pelvic bone', Scientific Bulletin of the Silesian University of Technology, No. 1651, Gliwice, 2004 (ISSN 0434-0817), in Polish (scientific review)
19. M. Achtelik, J. Grzelak, 'Laboratory exercises of modeling and simulation of mechanical systems using MATLAB-SIMULINK', Technical Univeristy of Opole, Opole, No. 269, 2004, in Polish
20. Ji-Huan He, 'Perturbation Methods: Basic and Beyond', Elsevier, New York, 2005
21. L. Tomski, I. Podgórska-Brzdękiewicz, J. Szmidla, S. Uzny, 'Vibrations and stability of lumped mechanical systems', Technical Univeristy of Częstochowa, Częstochowa, 2006, in Polish
22. K. Kowal-Michalska (ed.), 'Dynamic stability of plate composite structures', WNT, Warsaw, 2007, in Polish
23. M. Gzik, 'Biomechanics of a human spinal column', Silesian University of Technology Press, Gliwice, 2007, in Polish
24. A.Yu. Ishlinsky, V.A. Storozenko, M.Ye. Temchenko, 'Stability analysis of complex mechanical systems', Moscow, Nauka, 2002 (for Mathematical Reviews)
25. L. Tomski, 'Free vibrations and stability of slender structures geometrically linear or non-linear', WNT, Warsaw, 2007, in Polish
26. B. Posiadała, 'Modeling and analysis of lumped-continuous mechanical systems. Application of Lagrange's multipliers formalism', The Technical University of Czestochowa Press, Czestochowa, 2008, in Polish
27. J. Świder and K. Stankiewicz, 'The fuzzy control algorithm of a textile feeder machine' The Silesian University of Technology Press, Gliwice, 2008, in Polish
28. S. Kukla, 'The Green's function and their applications', Czestochowa University of Technology Press, Czestochowa, 2009, in Polish
29. M. Feckan, 'Functional Analysis Bifurcation Methods and Chaos in Dynamical Systems' Nonlinear Physical Science, Higher Education Press (China)/Springer Verlag (to appear)
30. V. Parenti-Castelli and M. Troncossi, 'Grasping the Future: Advances in Powered Upper Limb Prosthetics', Bentham Science Publishers, E-books (to appear)
31. R. Palej, 'Matrices Eigenvalue Problems in Theory of Vibrations', Cracow Technological University Press, Cracow, 2010
32. J. Steigenberger, C. Behn, 'An Intermediate Approach to the Theory of Worm-Like Locomotion Systems', Willey (to appear)
33. J. Warmiński, 'Nonlinear Modes of Vibration. Part I: Discrete Systems', PWN, Warsaw, 2011, in Polish

34. A. Krowiak, 'Method of the Differential Quadratures Applied to Mechanical Problems', Scientific Bulletin of the Technical University of Cracow, Cracow, 2012, in Polish
35. W. Wojnicz, E. Wittbrodt, 'Discrete Models in Dynamic Analysis of Skeletal Muscles of the Arm-Forearm System', Scientific Bulletin of the Gdansk University of Technology, Gdansk, 2012, in Polish
36. J. Przybylski, 'Problems of Statics and Dynamics of Slender Mechanical Systems with Integrated Piezoceramic Elements', University of Technology of Czestochowa, Czestochowa, 2012
37. Albert C. J. Luo, 'Toward Analytical Chaos in Nonlinear Systems', John Wiley & Sons, Chichester, United Kingdom, 2012.
38. Albert C. J. Luo, 'Analytical Routines to Chaos in Nonlinear Engineering', John Wiley & Sons, Chichester, United Kingdom, 2014.
39. Gonglin Yuan, Zengxib Wei, Xiwen Lu, 'Optimization and Numerical Methods for Nonlinear Equations', Scientific Research Publishing, SCIRP, USA, (submitted).
40. D. Kovriguine, 'Resonant Phenomena in Mechanical Engineering', Springer, 2014 (submitted).
41. M. Feckan and M. Pospisil, 'Poincare-Andronov-Melnikov Analysis for Periodic Discontinuous Systems', Elsevier, 2015.
42. J. Świder, A. Cholewa, A. Zbilski, 'Computer-assisted analysis of the energy consumption of electric drives of machines in transport and manipulation processes' Publisher's Computer Laboratory, Gliwice 2015.
43. E. Brusa, D. Ferretto, A. Cala, 'Systems Engineering Applied to the Industrial Product Design and Innovation', Springer, 2015.
44. S. A. Popescu, M. Jianu, 'First Steps in Differential Equations, Calculus of Variations and Probabilities for Engineering Students', Springer, Basel, 2017.
45. W. Kurnik, 'Lectures on Theoretical Mechanics', Warsaw University of Technology, 2017 (submitted).

SCIENTIFIC RESEARCH ABROAD: VISITING PROFESSOR/SCHOLAR

(place, time, period, year)

Long-term stays

Department of Dynamics and Control, The Strathclyde University, Glasgow, Scotland	**1 month**	1987
Fundacja Alexandra von Humboldta, University of Braunschweig, Germany	**24 months**	1987-1990 1993
Fundacja Japanese Society for the Promotion of Science, Tokyo University, Japonia	**12 months**	1990
Department of Mechanical Engineering, Tokyo University, Japan	**3 months**	1991
Research Centre for Advanced Science and Technology, The Tokyo University, Mitsubishi Endowed Chair, Japan	**9 months**	1992
E.N.T.P.E., Région Rhônes-Alpes, TEMPRA, Lyon, France	**6 months**	1995
Department of Mathematics, The Waikato University, Hamilton, New Zeland	**1 month**	1996/1997
Nagroda Ministére de l'Education nationale, de la recherche et de la technologie, E.N.T.P.E., Vaulx en Velin, France	**2 months**	1999
Fundacja im. T. Kościuszko, Mechanical and Industrial Engineering, University of Illions, Urbana, USA	**3 months**	1999/2000
Fundacja Fulbrighta (Senior Grant Award) Department of Electrical Engineering and Computer Science and Department of Mechanical Engineering, The University of California, Berkeley, USA	**12 months**	2001/2002
Région Rhône-Alpes, TEMPRA PECO, E.N.T.P.E., Vaulx en Velin, France	**3 months**	2001/2002
Central European University (Fellowship Program), Department of Mathematics and Its Applications, Budapest, Hungary	**1 month**	2003
NATO Grant Award (Service des Bourses de Recherche Scientifique et Technique du Traite de l'Atlantique Nord (OTAN)); ENTPE, Vaulx en Velin (Lyon), France	**3 months**	2005
Alexander von Humboldt Research Award for scientific achievements	**12 months**	2010/2011
Nagroda Alexandra von Humboldta, Technical University of Darmstadt, Germany	**4 months**	2016

Short-term stays

Hannover University, Hannover, Germany	1 week	1988
Technical University, Braunschweig, Germany	1 week	1989
Technical University, Munich, Germany	1 week	1989
Technical University, Stuttgart, Germany	1 week	1989
Technical University, Braunschweig, Germany	1 week	1989
Technical University, Berlin, Germany	1 week	1989
Technical University, Berlin, Germany	1 week	1989
Kyoto University, Kyoto, Japan	1 week	1990
Hokkaido University, Sapporo, Japan	1 week	1990
Kyushu University, Fukouka, Japan	1 week	1990
Tokyo University, Tokyo, Japan	1 week	1990
Monash University, Melbourne, Australia	1 week	1991
Tohoku University, Sendai, Japan	1 week	1991
Kyoto University, Kyoto, Japan	1 week	1991
Saitama University, Urawa, Japan	1 week	1992
Peking University, Peking, China	1 week	1992
Tohoku University, Sendai, Japan	1 week	1992
RCAST, Tokyo University, Tokyo, Japan	1 week	1992
Dong-A University, Pusan, Korea	1 week	1992
University of the Philippines, Manila, The Philippines	1 week	1992
National University of Singapore, Singapore	1 week	1992
Technical University, Braunschweig, Germany	2 weeks	1993
University of Toronto, Toronto, Canada	2 weeks	1993
Ecole Nationale des Travaux Publics de l'Etat, France	3 weeks	1995
Université Claude Bernard Lyon, France	1 week	1995
Ecole Nationale des Travaux Publics de l'Etat, France	1 week	1997
Université Claude Bernard Lyon, France	1 week	1999
The University of Sheffield, England	1 week	1999
Vienna University of Technology, Austria	1 week	2000
Universidad Central de Venezuela, Caracas, Venezuela	2 weeks	2000
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil	1 week	2000
Central European University, Budapest, Hungary	2 weeks	2003
Institution de Fisica, Universidade de Sao Paulo, Brazil	1 week	2005
The Dnepropetrovsk National University, Department of Differential Equations	1 week	2006
University La Coruna, Spain	1 week	2006
The Dnepropetrovsk National University, Ukraine	1 week	2006
University of Puerto Rico, Puerto Rico	2 weeks	2006
Nanjing University of Aeronautics and Astronautics, China	1 week	2006
University in Kharkov, Ukraine	1 week	2006
Mansoura University, Egypt	2 weeks	2006
Institute of Mechanical Eng., University of Lisbon	1 week	2007
Russian Academy of Science, Russia	1 week	2007
Universidade de Porto, Portugal	1 week	2007
California State University, Cancun, Mexico	1 week	2007
Israel institute of technology, Israel	1 week	2008
Institute for Problems of Mechanical Engineering , Russia	1 week	2008
Institute of Chemical Physics of Russian Academy of Science	1 week	2008
University of Iceland, Raykjavik, Iceland	1 week	2008
University of Botswana, Gabarone, Botswana	1 week	2008
Technical University of Crete, Chania, Greece	1 week	2009
University of Sapienza, Roma, Italy	1 week	2009
Cinvestav, New Mexico, Mexico	1 week	2016

JOURNALS – CANDIDATE'S PUBLISHED WORKS

1. *Acta Mechanica*
2. *Acta Mechanica et Automatica*
3. *Acta of Bioengineering and Biomechanics*
4. *Acta Physica Slovaca*
5. *Applied Mathematical Modelling*
6. *Applied Mechanics Reviews*
7. *Analytical Biochemistry*
8. *Archive of Applied Mechanics*
9. *Bifurcation and Chaos: Theory and Applications*
10. *Biocybernetics and Biomedical Engineering*
11. *Chaos*
12. *Chaos, Solitons & Fractals*
13. *Clinical Biomechanics*
14. *Collection of the Problems of Mechanical Vibrations*
15. *Communications in Nonlinear Science and Numerical Simulation*
16. *Composite Structures*
17. *Composites Part B. Engineering*
18. *Computer Assisted Mechanics and Engineering Sciences*
19. *Computer Methods in Applied Mechanics and Engineering*
20. *Computer Supported Computations - Examples of Applications of the MATLAB and Maple V Programs*
21. *Computers & Structures*
22. *Computers in Biology and Medicine*
23. *Contemporary Problems of Modal Analysis of Mechanical Designs*
24. *Differential Equations and Dynamical Systems*
25. *Differential Equations and Nonlinear Mechanics*
26. *Dynamics and Stability of Systems Journal*
27. *Engineering Computations*
28. *Entropy*
29. *European Journal of Mechanics, A/Solids*
30. *Facta Universitatis, University of Niš, Series: Mechanics, Automatic Control and Robotics*
31. *International Applied Mechanics*
32. *International Journal of Applied Mathematics and Computer Science*
33. *International Journal of Applied Mechanics*
34. *International Journal of Bifurcation and Chaos*
35. *International Journal of Engineering Science*
36. *International Journal of Mechanical Sciences*
37. *International Journal of Modern Physics B*
38. *International Journal of Non-Linear Mechanics*
39. *International Journal of Nonlinear Sciences and Numerical Simulation*
40. *International Journal of Numerical Analysis and Modeling*
41. *International Journal of Solids and Structures*
42. *International Journal of Structural Stability and Dynamics*
43. *International Journal of Turbulence, Częstochowa*
44. *International Review of Mechanical Engineering*
45. *Journal of Applied Analysis*
46. *Journal of Applied Mathematics and Mechanics ZAMM*
47. *Journal of Applied Mathematics and Physics ZAMP*
48. *Journal of Computational and Nonlinear Dynamics*
49. *Journal of KONES Powertrain and Transport*
50. *Journal of Mathematical Analysis and Applications*
51. *Journal of Mechanics in Medicine and Biology*
52. *Journal of Musculoskeletal & Neuronal Interactions*
53. *Journal of Sound and Vibration*
54. *Journal of Technical Physics*
55. *Journal of Theoretical and Applied Mechanics*

56. *Journal of Thermal Stresses*
57. *Journal of the Physical Society of Japan*
58. *Journal of Vibration and Acoustics*
59. *Journal of Zhejlang University – Science A*
60. *Journal on Systems Analysis Modelling Simulation*
61. *KSME Journal*
62. *Latin American Journal of Solids and Structures*
63. *Machine Dynamics Problems*
64. *Mathematical and Computational Applications*
65. *Mathematical Problems in Engineering*
66. *Meccanica*
67. *Mechanical Systems and Signal Processing*
68. *Mechanics Research Communications*
69. *Mechatronics*
70. *Medicina-Lithuania*
71. *Multibody System Dynamics*
72. *Nonlinear Analysis*
73. *Nonlinear Analysis: Real World and Applications*
74. *Nonlinear Dynamics*
75. *Nonlinear Dynamics: New Theoretical and Applied Results*
76. *Nonlinear Dynamics, Chaos, Control and Their Applications to Engineering Sciences*
77. *Nonlinear Phenomena in Electromagnetic Fields*
78. *Nonlinear Vibration Problems*
79. *Physics Letters A*
80. *Proceedings Of The Institution Of Mechanical Engineers Part I-Journal Of Systems And Control Engineering*
81. *RIK NGAU*
82. *Russian Journal of Biomechanics*
83. *Sci. Bull. Łódź Technical University*
84. *Shock and Vibration*
85. *Special Issue Archive of Applied Mechanics*
86. *Special Issue of Communications in Nonlinear Science and Numerical Simulation*
87. *Special Issue of International Journal of Bifurcation and Chaos*
88. *Special Issue of International Journal of Solids and Structures*
89. *Special Issue of Meccanica*
90. *Special Issue of Mathematical Problems in Engineering*
91. *Special Issue of Nonlinear Analysis*
92. *Special Issue of the Journal of Theoretical and Applied Mechanics*
93. *Strojnicky Casopis*
94. *Theoretical and Applied Mechanics Letters*
95. *Vibrations in Physical Systems*
96. *Visnik Tekhnologichnogo Universitety Podillia*
97. *ZAMM, Z. Angew. Math, Mech.*

INTERNATIONAL CONFERENCES (active participation)

1. XIth Symposium, Poznań-Błażejewko, Poland, May 24-26, 1984
2. Fifth National Congress on Theoretical and Applied Mechanics, Varna, Bulgaria, 1985
3. International Conference on Rotor Dynamics, Tokyo, Japan, September 14-17, 1986
4. European Mechanics Colloquium 'Application of Chaos Concepts to Mechanical Systems', Wuppertal, FRG, September 26-29, 1988
5. Fourth Asian Congress of Fluid Mechanics, Hong Kong, August 21-25, 1989
6. GAMM Conference, The Annual Scientific Conference in Karlsruhe, FRG, March 28-31, 1989
7. PAN American Congress of Applied Mechanics, Rio de Janeiro, Brazil, 1989
8. International Conference on Dynamics, Vibration and Control, Beijing, China, July 3-7, 1990
9. Second World Congress on Computational Mechanics, Stuttgart, Germany, August 27-31, 1990
10. 13th IMACS World Congress on Computation and Applied Mathematics, Trinity College, Dublin, Ireland, July 22-26, 1991
11. First NOLTA Workshop on Nonlinear Theory and Adaptively Learning Systems, Kyoto, Japan, January 17, 1991
12. Fifth Asian Congress of Fluid Mechanics, Taejon, Korea, August 10-14, 1992
13. First International Conference on Motion and Vibration Control MOVIC, Yokohama, Japan, September 7-11, 1992
14. International Conference on Fluid Mechanics and Theoretical Physics, Beijing, China, June 1-3, 1992
15. The International Simposium on Nonlinear Phenomena in Electromagnetic Fields, Nagoya Congress Center, Nagoya, Japan, January 26-29, 1992
16. EUROMECH, 1st European Nonlinear Oscillations Conference, Technical University Hamburg-Harburg, Hamburg, Germany, August 16-20, 1993
17. GAMM Conference, The Annual Scientific Conference in Dresden-University of Technology, Dresden, Germany, April 12-16, 1993
18. Third Polish-Japanese Joint Seminar on Modelling and Control of Electromagnetic Phenomena, Kazimierz, Poland, April 19-21, 1993
19. The International Simposium on Simulation and Design of Applied Electromagnetic Systems, Hokkaido Koseinenkin Kaikan, Sapporo, Japan, January 26-30, 1993
20. EUROMECH, 2nd European Solid Mechanics Conference, Genoa, Italy, September 12-16, 1994
21. EUROMECH 325, 'Bifurcation and chaos in solid and structural dynamics', University of L'Aquila, Italy, September 19-22, 1994
22. GAMM Conference, The Annual Scientific Conference at the Technical University of Braunschweig, Braunschweig, Germany, April 4-8, 1994
23. I.U.T.A.M. & I.S.I.M.M. Symposium „Anisotropy, Inhomogeneity and Nonlinearity in Solid Mechanics", Department of Theoretical Mechanics, University of Nottingham, England, August 30-September 3, 1994
24. Third International Colloquium on Numerical Analysis, Plovdiv, Bulgaria, August 13-17, 1994
25. Vibrations in Physical Systems, XVIth Symposium, Poznań - Błażejewko, Poland, May 26-28, 1994
26. 4th German-Polish Workshop on 'Dynamical Problems in Mechanical Systems', Berlin, Germany, July 30-August 4, 1995
27. International Conference on Nonlinear Dynamics, Chaotic and Complex Systems. NDCCS'95, Zakopane, Poland, November 7-12, 1995
28. Ninth World Congress on the Theory of Machines and Mechanisms, Milan, Italy, August 30-31/September 1-2, 1995
29. YUCTAM NIS'95, Niš, Yugoslavia, May 29 - June 3, 1995
30. EUROMECH - 2nd European Nonlinear Oscillations Conference (ENOC), Prague, Czech Republic, September 9-13, 1996
31. Fifth International Colloquium on Numerival Analysis, Plovdiv, Bulgaria, August 13-17, 1996

32. International Conference on 'Nonlinearity, Bifurcation, Chaos: The Doors to the Future', Łódź-Dobieszków, Poland, September 16-18, 1996
33. The Second World Congress of Nonlinear Analysts, Official Program, Athens, Greece, July 10-17, 1996
34. 4th International Conference on 'Computers in Medicine', Zakopane, Poland, May 2-6, 1997
35. IV World Congress on Computational Mechanics, Buenos Aires, Argentina, June 29-July 2, 1998
36. COMPUTATIONAL MECHANICS. New Trends and Applications, CIMNE, Barcelona, Spain, 1998
37. EUROMECH Colloquium 'Dynamics of Vibro-Impact Systems', Loughborough University, England, September 15-18, 1998
38. Fifth International Symposium on Methods and Models in Automation and Robotics, Międzyzdroje, Poland, August 25-29, 1998
39. IUTAM/IFToMM Symposium on SYNTHESIS OF NONLINEAR DYNAMICAL SYSTEMS, Riga, Latvia, August 24-28, 1998
40. The International Symposium on Trends in Continuum Physics, Poznan, Poland, August 17-20, 1998
41. 2nd Belorussian Congress on Theoretical and Applied Mechanics, 'Mechanics-99', Minsk, Belorussia, June 28-30, 1999
42. 3rd ' International Congress on Thermal Stresses'99, Cracow, Poland, June 13-17, 1999
43. 5th Conference Dynamical Systems-Theory and Applications, Łódź, Poland, December 6-8, 1999
44. 11th European Congress of Neurosurgery (EANS), Copenhagen, Denmark, 19-24 September, 1999
45. XII International Student Symposium on Mechanics, Microtechnology and Microcomputers, Łódź - Zakopane, Poland, 1999
46. ASME Design Engineering Technical Conferences, Las Vegas, Nevada, September 12-16, 1999
47. Design Engineering Technical Conferences DETC'99, 17th Biennial Conference on Mechanical Vibration and Noise Las Vegas, Nevada, USA, September 12-16, 1999
48. European Medical & Biological Engineering Conference EMBEC'99, Vienna, Austria, November 4-7, 1999
49. European Association of Neurosurgical Societes, Winter Meeting, Warsaw, Poland, February 13-16, 1999
50. EUROMECH, Third European Nonlinear Oscillations Conference, Copenhagen (Lyngby), Denmark, August 8-12, 1999
51. IUTAM Symposium on RECENT DEVELOPMENTS IN NON-LINEAR OSCILLATIONS OF MECHANICAL SYSTEMS, Vietnam National University, Hanoi, Vietnam, March 2-5, 1999
52. Tenth World Congress on the Theory of Machines and Mechanisms, Oulu, Finland, June 20-24, 1999
53. ECCOMAS 2000 European Congress on Computational Methods in Applied Sciences and Engineering, Barcelona, Spain, September 11-14, 2000
54. Fifth International Conference on Mathematical and Numerical Aspects of Wave Propagation, Santiago de Compostela, Spain, July 10-14, 2000
55. Third International Conference on Applied Mathematics and Engineering Sciences, CIMASI'2000, EMTP, Casablanca, Morocco, October 23-25, 2000
56. International Conference of Applied Mechanics, SACAM2000, Durban, South Africa, January 11-13 2000
57. IASS-IACM 2000 Fourth International Colloquium on Computation of Shell & Spatial Structures, Chania-Crete, Greece, June 4-7, 2000
58. 6th Conference on Dynamical Systems-Theory and Applications, Łódź, Poland, December 10-12, 2001
59. 10th International Conference on System-Modelling-Control, Zakopane, Poland, May 21-25, 2001
60. 17th International Conference on CAD/CAM, Robotics and Factories of the Future, Durban, South Africa, July 10-12, 2001
61. Czechoslovak International Conference on Differential Equations and Their Applications, Academy of Sciences of the Czech Republic, Prague, Czech Republic, August 27-31, 2001

62. DETC'01, 2001 ASME Design Engineering Technical Conferences, Pittsburg, Pennsylvania, USA, September 9-12, 2001
63. EuroConference on Computational Mechanics and Engineering Practice', Szczyrk, Poland, September 19-21, 2001
64. Euromech Colloquium 424, Buckling Predictions of Imperfection Sensitive Shells, Monastery ROLDUC at Kerkrade, The Netherlands, September 2-5, 2001
65. European Congress on Computational Methods in Applied Sciences and Engineering, ECCOMAS Computational Fluid Dynamics Conference 2001, Swansea, Wales, UK, September 4-7, 2001
66. The Fourth Polish - Ukrainian Conference: Current Problems in Mechanics of Nonhomogeneous Media, TU of Łódź, Łódź, Poland, September 4-8, 2001
67. 4th International Conference on Structural Dynamics EURODYN 2002, Munich, Germany, September 2-5, 2002
68. Czechoslovak International Conference on Differential Equations and Their Applications EQUADIFF 10, Praque, Czech Republic, August 27-31, 2001
69. First International Congress on Mechatronics, Johannes Kepler University, July 3-6, 2002
70. Fourth International Conference on Nonlinear Mechanics, Shanghai, China, August 13-16, 2002
71. Fourth Euromech Nonlinear Oscillations Conference, Moscow, Russia, August 19-23, 2002
72. Informatics Section of Committee of the Scientific Research, Warsaw, Poland, November 10, 2002
73. Ninth Conference On Nonlinear Vibrations, Stability, and Dynamics of Structures', Virginia Polytechnic Institute and State University, Blacksburg, USA, July 28 - August 1, 2002
74. Seventh PAN American Congress of Applied Mechanics, PACAM VII, Temuco, Chile, January 2-4, 2002
75. 1st Scientific-Technical Polish-Ukrainian Conference on Todays Technologies of Production and Modelling, Chmielnitskiy-Satanov, Ukraine, October 16-18, 2003
76. 2nd International Conference on Modelling and Simulation of the Friction Phenomena in the Physical and Technical Systems, FRICTION 2002, Warsaw University of Technology, Warsaw, Poland, December 2-3, 2003
77. 6th International Conference on Vibration Problems, ICOVP-2003, Liberec, Czech Republic, September 8-12, 2003
78. 7th Conference on Dynamical Systems – Theory and Applications, Łódź, Poland, December 8-11, 2003
79. 9th International Conference on Enhancement and Promotion of Computational Methods in Engineering and Science, EPMESC IX, University of Macau, Macao, November 25-28, 2003
80. 9th International Conference on Numerical Methods in Continuum Mechanics, Žilina, Slovak Republic, September 9-12, 2003
81. DETC2003, ASME 2003 Design Engineering Technical Conferences and Computers and Information in Engineering Conference, Chicago, Illinois, USA, September 2-6, 2003
82. Fifth Ukrainian-Polish Science Symposium of Current Problems of the Mechanics of Nonhomogeneous Structures, Lwów-Lutsk, Ukraine, September 18-23, 2003
83. International Conference Physics and Control, PHYSCON 2003, Saint Petersburg, Russia, August 20-22, 2003
84. International Conference Biomechanics 2003, Poznań, Poland, September 24-26, 2003
85. IUTAM Symposium on Chaotic Dynamics and Control of Systems and Processes in Mechanics, Rome, Italy, June 8-13, 2003
86. International Conference on Differential Equations, EQUADIFF 2003, Hasselt, Belgium, July 22-26, 2003
87. Sixth International Symposium on Nonlinear Mechanics, Nonlinear Sciences and Applications, Niš, August 24-29, 2003
88. 5th German-Greek-Polish Symposium on Advances in Mechanics, Bad Honnef, Germany, September 12-18, 2004
89. 7th International Conference on Computational Structures Technology, Lisbon, Portugal, September 7-9, 2004
90. 8th Pan-American Congress of Applied Mechanics, PACAM VIII, Havana, Cuba, January 5-9, 2004

91. 21st International Congress of Theoretical and Applied Mechanics, Warsaw, Poland, August 15-21, 2004
92. 30-th Jubilee International Conference Applications of Mathematics in Engineering and Economics, AMEE'04, Sozopol, Bulgaria, June 7-11, 2004
93. 49th International Colloquium on Synergies between Information Processing and Automation, Ilmenau, Germany, September 27-30, 2004
94. XXI Symposium on Vibrations in Physical Systems, Kiekrz-Poznań, Poland, May 26-29, 2004
95. EUROMECH Colloquium 457 on Non-linear Modes of Vibrating Systems, Frejus, France, June 7-9, 2004
96. International Conference Biomechanics 2004, Gdańsk, Poland, September 9-11, 2004
97. International Conference on Modelling and Simulation of the friction phenomena in the physical and technical systems, Friction 2004, Warsaw, Poland, May 31, 2004
98. International Symposium on Trends in Continuum Physics TRECOP04, Poznań University of Technology, Poznań, Poland, November 17-19, 2004
99. International Conference on Nonlinear Dynamics, Kharkov, Ukraine, September 14-16, 2004
100. The Fourth World Congress of Nonlinear Analysts, Minisymposium 'Integrity of Dynamical Systems', Orlando, Florida, USA, June 30-July 7, 2004
101. 6th Polish-Ukrainian Conference on Current Problems of Mechanics of Nonhomogeneous Media, Warsaw, Poland, September 6-10, 2005
102. 8th Conference on Shell Structures - Theory and Applications, SSTA2005, Gdańsk-Jurata, Poland, October 12-14, 2005
103. 8th Conference on Dynamical Systems – Theory and Applications, Łódź, Poland, December 12-15, 2005
104. 9th International Conference on Stability, Control and Rigid Bodies Dynamics, Donetsk, Ukraine, September 1-6, 2005
105. 11th International Conference on Vibration Engineering, Timisoara, Romania, September 27-30, 2005
106. 11th International Conference on System Modelling Control, Zakopane, Poland, October 17-19, 2005
107. Fifth EUROMECH Nonlinear Dynamics Conference, ENOC2005, Eindhoven, The Netherlands, August 7-12, 2005
108. Regional Scientific Conference of the Societas Humboldtiana Polonorum (SHP) – New Technologies and Ethics in Medicine, Słok, Poland, May 26-28, 2005
109. Workshop on Nonlinear Phenomena: Modeling and Their Applications, Rio Claro, Brazil, May 2-4, 2005
110. 22nd International Conference on Vibrations in Physical Systems, Poznań-Będlewo, Poland, April 18-22, 2006
111. 23rd Southeastern Conference on Theoretical and Applied Mechanics, Mayagüez, Puerto Rico, May 21-23, 2006
112. EUROMECH Colloquium 476, Real-time Simulation and Virtual Reality Applications of Multibody Systems, La Coruňa, Ferrol, Spain, March 13-16, 2006
113. IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty, Nanjing, China, September 17-22, 2006
114. International Conference 'Biomechanics 2006', Zakopane, Poland, September 6-8, 2006
115. International Conference on New Trends in Mechanics and Transport, Kurozwęki, Poland, April 24-27, 2006
116. International Conference on Actual Problems of Applied Mathematics and Mechanics (the 80-anniversary of the birthday of Prof. V.L. Rvachev), Kharkov, Ukraine, October 23-26, 2006
117. International Conference on Modelling and Simulation of the Friction Phenomena in the Physical and Technical systems, Friction 2006, Warsaw, Poland, June 6, 2006
118. Ninth Pan American Congress of Applied Mechanics, PACAM IX, Mérida, Yucatán, México, January 2-6, 2006
119. Scientific Session Applied Mechanics 2006, Bydgoszcz, Poland, October 26-27, 2006
120. International Conference on Engineering Dynamics, Carvoeiro, Algarve, Portugal, April 16-18, 2007

121. International Conference on Modern Analysis and Applications, MAA 2007, Odessa, Ukraine, April 9-14, 2007
122. 14th International Workshop on Dynamics and Control, Moscow, Zvenigorod, May 28 - June 2, 2007
123. 12th World Congress in Mechanism and Machine Science, Besançon, France, June 17 -21, 2007
124. EUROMECH Colloquium 483, "Geometrically Non-Linear Vibrations of Structures", Porto, Portugal, July 9-11, 2007
125. First International Scientific Congress on Mechanics, Warsaw, Poland, August 28-31, 2007
126. 2nd International Conference on Nonlinear Dynamics 2007 (in honour of Alexander Mikhailovich Lyapunov 150th Anniversary), Kharkov, Ukraine, September 25-28, 2007
127. 12th School on Modal Analysis, Cracow, Poland, December 6-7, 2007
128. International Conference on Computer Aided Engineering (CAE 2007), IIT Madras, Chennai, India, December 13-15, 2007
129. VIII Mechatronic Design Workshop, Cracow, Poland, April 28-29, 2008
130. 2nd Conference "Mechanics of Non-homogeneous Media", Lagow, Poland, May 15-17, 2008
131. XVI French-Polish Seminar of Mechanics, Warsaw, Poland, May 15, 2008
132. The Nonlinear Dynamics and Chaos of Composite Smart Structures Conference, Kazimierz Dolny, Poland, May 21-24, 2008
133. XXIII Symposium 'Vibrations in Physical Systems', Poznan-Bedlewo, Poland, May 28-31, 2008
134. Chaotic Modeling and Simulation International Conference (CHAOS2008), Chania, Crete, Greece, June 3-6, 2008
135. International Conference on Mechanics and Ballistics "6th Okunev's Readings", Saint Petersburg, Russia, June 23-27, 2008
136. 7th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2008), Genoa, Italy, June 25-27, 2008
137. International Conference on Nonlinear Phenomena in Polymer Solids and Low-dimensionaal Systems, July 8-11, 2008, Moscow, Russia (member of the advisory committee and the program committee)
138. 4th International Conference on Mechatronic Systems and Materials (MSM 2008), Bialystok, Poland, July 14-16, 2008
139. 5th International Conference of Applied Mathematics and Computing, Plovdiv, Bulgaria, August 12-18, 2008
140. International Conference on Biomechanics 2008, Wroclaw, Poland, August 31 - September 3, 2008
141. International Symposium RA'08 Rare Attractors and Rare Phenomena in Nonlinear Dynamics, Riga, Jurmala, Latvia, September 8-12, 2008
142. XXIth Conference Scientific-Didactic of Theory of Machines and Mechanisms, Bielsko-Biała - Szczyrk, Poland, September 22-25, 2008
143. The Scientific Session 'Applied Mechanics 2008', , University of Technology and Life Sciences, Bydgoszcz, Poland, October, 2008
144. International Program Committee (IPC) of the IASTED International Conference on Modern Nonlinear Theory (MNT 2008), Orlando, Florida, USA, November 16-18, 2008
145. 13th School of Modal Analysis, Cracow, Poland, December 4-5, 2008
146. Member of the Editorial Board of CST2008: The Ninth International Conference on Computational Structures Technology, Athens, Greece, September 2-5, 2008
147. 9th International Conference on Active Noise and Vibration Control Methods (MARDiH 2009), Zakopane, Poland, May 24-27, 2009
148. 2nd Chaotic Modeling and Simulation International Conference (CHAOS 2009), Chania, Crete, Greece, June 1 - 5, 2009
149. International Conference on Structural Engineering Dynamics (ICEDYN 2009), Ericeira, Portugal, June 15-17, 2009
150. The 9th Conference SHELL STRUCTURES Theory and Applications, Gdansk - Jurata, Poland, October 14-16, 2009
151. XIth Scientific-Technic Conference - Programs FEM in Supporting Analysis, Design and Production, Warsaw, Poland, October 20-23, 2009

152. Vth Scientific-Technic Conference - Resistance to Impacts of Constructions, Warsaw, Poland, October 20-23, 2009
153. 10th Conference on Dynamical Systems - Theory and Applications, Łódź, Poland, December 7-10, 2009
154. XXIV Symposium 'Vibrations in Physical Systems', Poznań - Bedlewo, Poland, May 12-15, 2010
155. 3rd International Conference on 'Nonlinear Dynamics ND-KhPI2010', Kharkov, Ukraine, September 21-24, 2010
156. VI International Conference 'FRICTION 2010', Warsaw, Poland, May/June, 2010
157. 3rd International Conference on 'Design Engineering and Scientific Applications in MATLAB', Kharkov, Ukraine, May 11-13, 2010
158. 14th International Symposium of Students and Young Mechanical Engineers "Advances in Chemical and Mechanical Engineering", Gdansk, May 5-7, 2011
159. International Conference on Structural Engineering Dynamics (ICEDyn 2011), Tavira, Portugal, 20-22 June, 2011
160. 7th European Nonlinear Dynamics Conference (ENOC 2011), Rome, Italy, July 24-29, 2011
161. 10th International Conference on Vibration Problems (ICOVP 2011), Prague, czech republic, September 5-8, 2011
162. X International Conference Brake and Safety, Łódź-Rogów, November 3-4, 2011
163. 11th Conference on Dynamical Systems - Theory and Applications, Łódź, Poland, December 5-8, 2011
164. International Conference 'Mechatronics: Ideas for Industrial Applications', Warsaw, Poland, May 16-18, 2012
165. International Conference on Structural Nonlinear Dynamics and Diagnosis, Marrakech, Marocco, April 30 - May 2, 2012
166. The World Congress: 9th International Conference on 'Mathematical Problems in Engineering, Aerospace and Sciences', Vienna, Austria, July 10-14, 2012
167. Eleventh International Conference on Computational Structures Technology, Dubrovnik, Croatia, September 4-7, 2012
168. International Conference of the Polish Society of Biomechanics, Biomechanics 2012, Białystok, Poland, September 16-19, 2012
169. 6th Chaotic Modeling and Simulation International Conference (CHAOS 2013), Istanbul, Turkey, June 11-14, 2013.
170. International Conference on Structural Engineering Dynamics (ICEDyn2013), Sesimbra, Portugal, June 17-19, 2013.
171. Mathematical Methods in Engineering International Conference, Porto, Portugal, July 22-26, 2013.
172. XIV International Conference on Civil, Structural and Environmental Engineering Computing, Cagliari, Italy, September 3-6, 2013.
173. 1st International Conference 'Shell and Membrane Theories in Mechanics and Biology: From Macro to Nanoscales Structures' (SMT in TB), September 16-20, 2013, Minsk, Belarus.
174. International Conference on 'Recent Advances in Mathematical Sciences and Applications' (RAMSA'13), December 19-22, 2013, India.
175. XIV Pan-American Congress of Applied Mechanics, Chile, March 24-28, 2014.
176. 8th European Nonlinear Dynamics Conference (ENOC 2014), Vienna, Austria, July 6-11, 2014.
177. World Congress: 10th International Conference on Mathematical Problems in Engineering, Aerospece and Sciences, Narvik, Norway, July 15-18, 2014.
178. 7th International Conference on Computer Science and Information Technology (ICCSIT 2014), December 22-24, 2014, Barcelona, Spain.
179. XX Congreso Colombiano de Matematicas, Universidad Nacional de Colombia, July 21-24, 2015, Manizales, Colombia.
180. Symposium on 'Mechanics of Slender Structures' (MoSS 2015), July 21-22, 2015, Northampton, UK.
181. 4th International Conference on Power Science and Engineering (ICPSE 2015), December 15-16, 2015, Amsterdam, Netherlands.

182. International Conference on Mechanics Engineering and Control Automation (ICMECA2016), January 9-10, 2016, Wuhan, China
183. 4th International Conference on 'Mathematical, Computational and Statistical Sciences (MCSS'16), February 13-15, 2016, Barcelona, Spain
184. 6th International Advances in Applied Physics and Materials Science Congress & Exhibition, June 1-3, 2016, Istanbul, Turkey
185. Sixth International Conference 'Geometry, Dynamics, Integrable Systems - GDIS 2016', June 2-5, 2016, Izhevsk, Russia
186. Sixth Conference on Numerical Analysis and Applications (NAA'16), June 15-22, 2016, Lozenetz, Bulgaria
187. International Conference on Advanced Technology Innovation (ICATI 2016), June 30- July 3, 2016, Bali, Indonesia
188. World Congress: 11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2016), July 5-8, 2016, La Rochelle, France
189. Dynamics Days: Latin America and the Carribean, October 24 -Noveber 1, 2016, Puebla, Mexico
190. 5th International Conference on Mechatronics and Control Engineering (ICMCE 2016), December 14-17, 2016, Venice, Italy
191. International Conference "Mechatronics: Ideas for Industrial Applications", September - 13-15, 2017, Wisła-Jawornik, Poland.
192. EUROMECH Colloquium on Rolling Contact Mechanics for Multibody System Dynamics, April 10-13, 2017, Funchal, Madeira, Portugal.
193. IV International School-Conference for Young Scientists "Nonlinear Dynamics of Machines" (SCHOOL-NDM 2017), April 18-21, 2017, Moscow, Russia.
194. 9th European Nonlinear Dynamics Conference (ENOC 2017), June 25-30, 2017, Budapest, Hungary.
195. International Conference on Structural Engineering Dynamics, July 4, 2017, Ericeira, Portugal.
196. 5th International Conference on Mechanical Properties of Materials (ICMPM 2018), November 27-29, 2018, Amsterdam, Netherlands.
197. 5th International Conference on Mechanical Properties of Materials (ICMPM 2018) and 7th International Conference of Mechatronics and Control Engineering (ICMCE 2018), November 28, 2018, Amsterdam, Netherlands.
198. First International Nonlinear Dynamics Confererence (NODYCON), February 17-20, 2019, Roma, Italy.
199. International Conference on Acoustics and Vibration of Mechanical Structures (AVMS 2019), May 30-31, 2019, Timisoara, Romania.
200. International Conference on Structural Engineering Dynamics (ICEDyn 2019), June 24-26, 2019, Viana do Castelo, Portugal.
201. 8th International Conference on Mechatronics and Control Engineering (ICMCE 2019), July 23-25, 2019, Paris, France.
202. 3rd International Conference on Information Processing and Control Engineering (ICIPCE 2019) and the 2nd International Conference on Robot Systems and Applications (ICRSA 2019), August 4-7, 2019, Moscow, Russia.
203. Symposium 'Nonlinear Dynamics - Scientific work of Prof. Dr Katica (Stefanovic) Hedrih', September 4-6, 2019, Belgrade, Serbia.

NATIONAL CONFERENCES (active participation)

1. Symposium 'Experimental Investigations in Mechanics', Warsaw, 1984
2. 10th National Congress in Mechanics, Warsaw, 1984
3. 24th Symposium 'Modelling in Mechanics', Gliwice, 1985
4. The First National Conference on 'Dynamical Systems: Theory and Applications', Łódź, 1992
5. Application of Electromagnetism in Modern Technics, Zaborów, September 6-8, 1993
6. The Second National Conference on 'Dynamical Systems: Theory and Applications', Łódź, 1994
7. First National Conference of MATLAB Users, Kraków, November 14-15, 1995
8. Third Conference on 'Dynamical Systems: Theory and Applications', Łódź, 1995
9. 1st National Conference 'Methods and Computer Systems in Scientific Research and Engineering Design', Kraków, November 25-26, 1997
10. 4th Conference 'Dynamical Systems-Theory and Applications', Łódź, December 8-9, 1997
11. Workshop Microtechnology and Thermal Problems in Electronics, Zakopane, September 21-27, 1998
12. Conference on Biomechanics - Modelling, Computational Methods, Experiments and Biomedical Applications, Łódź, December 7-8, 1998
13. XXXVIII Symposium 'Modelling in Mechanics', Gliwice, February 8-12, 1999
14. 2nd National Conference, 'Methods and Computer Systems in Scientific Research and Engineering Design', Cracow, October 25-27, 1999
15. 2nd Scientific Conference Impact Resistance of Constructions, Rynia, December 9-11, 1998
16. XIXth Symposium, Abstracts and Invited Lectures, Poznań-Błażejewko, May 23-27, 2000
17. XVII Polish National Conference on TMM, Warszawa-Jachranka, September 6-8, 2000
18. 70 years birthday and 45 years of the scientific activity of Prof. Dr hab. Józef Giergiel and the 5th School on Modal Analysis, Kraków, December 12-14, 2000
19. Polish Mechanics in the Threshold of XIX Century, OW PW, Kazimierz Dolny, Warszawa, October, 2001
20. Annual Scientific Conference Biomechanics'2001, Silesian University of Technology, Gliwice-Zakopane, September 3-6, 2001
21. XVIII Polish Scientific Conference on the Theory of Machines and Mechanisms, Wrocław - Lądek Zdrój, September 18-20, 2002
22. 3rd Scientific Conference Impact Resistance of Constructions, Rynia, October 23-25, 2002
23. 7th School on Modal Analysis, Cracow, December 10-11, 2002
24. 7th Conference on Shell Structures – Theory and Applications, Gdańsk University of Technology, Gdańsk – Jurata, October 9-11, 2002
25. Vibrations In Physical Systems, XXth Jubilee Symposium, Poznań - Błażejewko, May 21-25, 2002
26. 10th Conference on Vibro-acoustics and Vibro-technics WIBROTECH 2003, Cracow, March 24-25, 2003
27. XIX Polish National Conference on Theory of Machines and Mechanisms, TMM 2004, Cracow, October 12-14, 2004
28. 11th Scientific Conference on Vibro-acoustics and Vibro-technics, WIBROTECH 2005, Warsaw, November 3-4, 2005
29. 12th Scientific Conference on Vibro-acoustics and Vibro-technics, VI Polish Seminar on Vibro-acoustics in Mechanical Systems, WIBROTECH 2006, Warsaw, September 28-29, 2006
30. XX Polish National Conference on Theory of Machines and Mechanisms, TMM 2006, Zielona Góra, September 18-19, 2006
31. 22nd Symposium on Experimental Mechanics of Solids, Jachranka, October 18-21, 2006
32. XLVI Symposium 'Modelling in Mechanics', Wisła February 26 – March 2, 2007
33. VII Conference on Active Noise and Vibration Control Methods, Kraków-Krasiczyn, June 11 - 14, 2007
34. I Congress of Polish Mechanics, Warsaw, August 28-31, 2007
35. Jubilee Conference on 'Contemporary problems of mechanical engineering', Cracow, September 15, 2007
36. Polish National Conference on Theory of Machines and Mechanisms, Bielsko-Biala, September 18-19, 2008

37. XVII National Conference 'Mathematics, Computer, Education', Dubna, Russia, January 25-30, 2, 2009
38. XVII National Conference 'Biocybernetics and Biomedical Engineering', Gliwice/Tarnowskie Góry, October 11-14, 2011
39. XXV Symposium 'Vibrations in Physical Systems', Poznan - Bedlewo, May 15-19, 2012
40. 53 Symposium on Modeling in Mechanics, Ustroń, February 22-26, 2014
41. Scientific Session devoted to memory of Professor Jan Kruszewski-Majewski, Gdansk University of Technology, April 24-25, 2014
42. Universality of Nonclassical Approaches in Mechatronics, WELCOME Project Meeting, April 27-28, 2015, Cracow.
43. 27th Symposium on Vibrations in Physical Systems, Poznań-Będlewo, May 9-11, 2016
44. 4th International Conference "Mechatronics: Ideas for Industrial Applications", September - 13-15, Wisła-Jawornik, Poland.
45. 4th Polish Congress of Mechanics and 23rd International Conference on Computer Methods in Mechanics PCM-CMM-2019, September 8-12, 2019, Kraków, Poland.
46. 15th International Conference 'Dynamical Systems - Theory and Applicattions', December 2-5, 2019, Łódź, Poland.

RESEARCH PROJECTS- SUPERVISOR/PRINCIPAL INVESTIGATOR (PI)

1.

Title of the project:	*Analytical-numerical method of of the global analysisof discrete deterministic systems's dynamics*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	State Committee for Scientific Research
Project number:	7 T07A 017 10 (supervisor's grant)
Contract number:	PB 119/T07/96/10
Commencemente date:	01.01.1996
Finish date:	31.12.1997
Key words:	*Periodic and quasi-periodic orbits, bifurcations, chaos, stability*

2.

Title of the project:	*Modelling, statical and dynamical analysis of a human vertebral column using implants*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Tomasz Antosik
Funding:	State Committee for Scientific Research
Project number:	8 T11F 014 13 (supervisor's grant)
Contract number:	540/T11/97/13
Commencemente date:	01.07.1997
Finish date:	31.12.1998
Key words:	*MES, implant (stabilizer), stability*

3.

Title of the project:	*Analysis of bifurcations and chaos in a system of three pendulums*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Grzegorz Kudra
Funding:	State Committee for Scientific Research
Project number:	8 T07A 009 21 (supervisor's grant)
Contract number:	0985/T07/2001/21
Commencemente date:	01.08.2001
Finish date:	31.07.2003
Key words:	*Strongly nonlinear vibrations, impacts, bifurcations,chaos, numerical and analytical methods*

4.

Title of the project:	*Experimental investigations and numerical analysis of simple chaotic mechanical models*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Bogdan Supeł
Funding:	State Committee for Scientific Research
Project number:	5 T07A 043 25 (supervisor's grant)
Contract number:	0817/T07/2003/25
Commencemente date:	19.09.2003
Finish date:	18.06.2005
Key words:	*Strongly nonlinear vibrations, impacts, bifurcations, chaos, experimental, numerical and analytical methods*

5.

Title of the project:	*Modelling, statical and dynamical analysis of a human thorax using implants*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Bartosz Łuczak
Funding:	State Committee for Scientific Research
Project number:	4 T07A 016 27 (supervisor's grant)
Contract number:	1466/T07/2004/27
Commencemente date:	05.11.2004
Finish date:	31.12.2006
Key words:	*thorax finite element method*

6.

Title of the project:	*Numerical and experimental analysis of regular and chaotic self-excited oscillations in a two-degrees-of-freedom system with friction*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Paweł Olejnik
Funding:	State Committee for Scientific Research
Project number:	4 T11F 005 22 (supervisor's grant)
Contract number:	1577/T11/2002/22
Commencemente date:	01.03.2002
Finish date:	28.02.2004
Key words:	*Numerical and analytical methods, experimental and metrological methods, self-excited oscillations, friction, chaotic dynamic*

7.

Title of the project:	*Modelling and analysis of strongly nonlinear systems with friction and impacts, using new mathematical methods*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	State Committee for Scientific Research
Project number:	4 T07A 031 28
Contract number:	1437/T07/2005/28
Commencemente date:	29.11.2005
Finish date:	28.11.2008
Key words:	*Impact, friction, bifurcations, chaos*

8.

Title of the project:	*Modelling the dynamics of contact systems, with taking friction-caused processes of giving and exhausting heat into consideratin*
Supervisor/PI	dr hab. inż. Yuriy Pyryev (prof. Awrejcewicz actively took part in executing the grant)
Funding:	State Committee for Scientific Research
Project number:	4 T07C 044 29
Contract number:	1684/T07/2005/29
Commencemente date:	12.12.2005
Finish date:	11.12.2008
Key words:	*Contact, friction, exhaustion, impact, warmth generation*

9.

Title of the project:	*Analytical methods of prediction and analysis of chaotic motion in mechanical systems of finite degrees of freedom*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Dariusz Sendkowski
Funding:	Ministry od Education
Project number:	4 T07A 034 29 (supervisor's grant)
Contract number:	1641/T07/2005/29
Commencemente date:	13.12.2005
Finish date:	12.12.2007
Key words:	*Hamiltonian systems, geometrodynamics, chaos, nonlinear dynamics. Riemannian geometry*

10.

Title of the project:	*Modelling and experimental studies of strongly nonlineat processes in mechatronic systems with friction, impacts, hysteresis and trybologiclas phenomenona*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	Ministry of Science and Higher Education
Project number:	N N504 004038
Contract number:	0040/B/T02/2010/38
Commencemente date:	01.03.2010
Finish date:	28.02.2013
Key words:	*Discrete systems, friction, impacts, hysteresis, numerical-analytical methods*

11.

Title of the project:	*Dynamics and tribological processes in a mechatronical system with friction clutch*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Dariusz Grzelczyk
Funding:	Narodowe Centrum Nauki
Project number:	N N501 191838
Contract number:	1918/B/T02/2010/38
Commencemente datea:	02.03.2010
Finish date:	31.03.2011
Key words:	*Friction coupling, exhaustion, trybological processes*

12.

Title of the project:	*Mathematical modeling, simulation and control of nonlinear dynamic biodynamic processess and mechatronic experimental investigations*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	Foundation for Polish Science
Project number:	„MISTRZ" [*MASTER*] program
Commencemente date:	02.03.2010
Finish date:	31.03.2011
Key words:	*Dynamics, mehcanics, biodynamical processes, mathematical modelling*

13.

Title of the project:	*Discrete and continuous hybrid-mechanical systems: mathematical modelling analitacal-numerical analysis and control, with reference to contact phenonema in three-dimensional space*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	The National Science Centre
Project number:	„MAESTRO 2" program
Contract number:	UMO-2012/04/A/ST8/00738
Commencemente date:	08.10.2012
Finish date:	07.10.2016
Key words:	*Nonlinear dynamics, continuous and lumped systems contact problems, friction, impacts, bifurcation, chaos*

14.

Title of the project:	*Nonlinear dynamics of nonautonomous system of physical pendulums with Cardan-Hook's-like joints*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Michał Ludwicki
Funding:	Ministry of Science and Higher Education
Project number:	N N519 573738
Contract number:	5737/B/T02/2010/38
Commencemente date:	14.04.2010
Finish date:	30.09.2011
Key words:	*Euler angles, chaos, bifurcation, nonlinear dynamics, rigid body, universal joint*

15.

Title of the project:	*Modelling, kinemtic-dynamic analysis and simulation of exoskeleton's prototype for people with lower limb disfunction*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	The National Science Centre
Project number:	„OPUS 9" program
Contract number:	UMO-2015/17/B/ST8/01700
Commencemente date:	2016-02-12
Finish date:	2019-02-11
Key words:	*Gait, exoskeleton, muscle modelling, lower limbs*

16.

Title of the project:	*Modelling and nonlinear dynamics of magneto-electro-mechanical systems*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	The National Science Centre
Project number:	„OPUS 14" program
Contract number:	UMO-2017/27/B/ST8/01330
Commencemente date:	2018
Finish date:	2021
Key words:	*Magneo-electric-mechanical field, nonlinear vobration, mathematical modelling, bifurcations, chaos*

17.

Title of the project:	*The development of finite element models for analysis on biomechanical performance of hallux valgus foot in gait*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Yan Zhang
Funding:	Ministry of Science and Higher Education
Project number:	PRELUDIUM 14
Contract number:	2017/25/N/ST8/02614
Commencemente date:	2018
Finish date:	2019
Key words:	*Finite element method, human foot biomechanics, hallux valgus*

18.

Title of the project:	*Mathematical modeling of nonlinear dynamics of nano electromechanical sensor elements in the form of flexible plates and coatings in the presence of noise and temperature field*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Postgraduate:	mgr inż. Vadim Krysko
Funding:	Ministry of Science and Higher Education
Project number:	PRELUDIUM 16
Contract number:	2018/31/N/ST8/00707
Commencemente date:	2019
Finish date:	2021
Key words:	

19.

Title of the project:	*Nonlinear vibrations of combined self-excited oscillators with parametric / auto-parametric excitation and non-ideal energy sources*
Supervisor/PI	prof. dr hab. inż. Jan Awrejcewicz
Funding:	The National Science Centre
Project number:	„OPUS 18" program
Contract number:	UMO-2019/35/B/ST8/00980
Commencemente date:	2020
Finish date:	2024
Key words:	

EDITOR/MEMBER OF JOURNALS' EDITORIAL COMMITTEES

Journals' Editor-in-Chief:

1. *Journal of Modeling, Simulation, Identification, and Control* (Columbia International Publishing)
2. *Journal of Vibration Testing and Systems Dynamics* (L&H Scientific Publishing)
3. *International Frontier Science Letters* (SciPress)

Member of journals' editorial committees:

- journals with IF

1. *Acta of Bioengineering and Biomechanics* (Wrocław University of Technology) **(IF 0.979)**
2. *Acta Mechanica Sinica*, Editor, Springer Berlin/Heidelberg (ISSN 0567-7718 (print) 1614-3116 (online)), 2008-2011 **(IF 1.598)**
3. *Applied Mathematical Modelling* (Subject Editor) **(IF 2.841)**
4. *Communications in Nonlinear Science and Numerical Simulation* (Associate Editor), 1996-2012 **(IF 3.967)**
5. *Inelligent Control and Automation* **(IF 1.34)**
6. *International Journal of Bifurcation and Chaos* (Associate Editor) (2020-2021) **(IF 2.145)**
7. International Journal of Bifurcation and Chaos, 30(2), 2020 **(IF 2.145)**
8. *International Journal of Modern Nonlinear Theory and Application* **(IF 0.76)**
9. *International Journal of Nonlinear Sciences and Numerical Simulation* **(IF 1.033)**
10. *Journal of Engineering* **(IF 0.79)**
11. *Journal of Intelligent Information Management* **(IF 0.89)**
12. *Journal of Medical Imaging and Health Informatics* **(IF 0.621)**
13. *Journal of Multi-bodyDynamics* (-2017) **(IF 1.146)**
14. *Journal of Sound and Vibration* (2016-) **(IF 3.123)**
15. *Latin American Journal of Solids and Structures* (Associte Editor) **(IF 1.289)**
16. *Mathematical Problems in Engineering* **(IF 1.179)**
17. *Mechanics Based Design of Structures and Machines* (Associate Editor) (2019-2021) **(IF 2.286)** (Taylor & Francis/CRC Press)
18. *Nonlinear Analysis: Real World Applications* (2009-2018) **(IF 2.085)**
19. *Nonlinear Dynamics: An International Journal of Nonlinear Dynamics and Chaos in Engineering Systems* (2006-2009) **(IF 4.604)**
20. *Symmetry* **(IF 2.143)**
21. *World Journal of Mechanics* **(IF 0.77)**

- other journals

1. *Acta Mechatronica*
2. *AGH University of Science and Technology Press* (AGH University)
3. *American Journal of Modern Physics (2018-2020)*
4. *American Journal of Robotics and Automation* (Austin Publishing Group)
5. *Annual Review of Chaos Theory, Bifurcations and Dynamical Systems* (Springer)
6. *Applied Mechanics (2018-)*
7. *Chaotic Modeling and Simulation* (CMSIM)
8. *Computer Research and Modeling*
9. *Current Advances in Civil Engineering*
10. *Eastern-European Journal of Enterprise Technologies*
11. *Eleventh International Conference on Computational Structures Technology (CST 2012)*
12. *Eureka: Physics and Engineering*
13. *InTech* Scientific Board 2011/2012 (Engineering, Technology and Computer Science)

14. *Inelligent Control and Automation* (ICA)
15. *International Journal of Aerospace and Lightweight Structures* (IJALS)
16. *International Journal of Control Engineering and Technology* (IJCET)
17. *International Journal of Innovative Research and Development* (IJIRD)
18. *International Journal of Mathematics and Computers Simulation*
19. *International Journal of Mathematics in Engineering, Science and Aerospace* (IJMESA).
20. *International Journal of Materials Engineering and Technology* (IJMET) (2015-2016)
21. *International Journal of Modern Mathematics* (Dixie W Publishing Corporation)
22. *International Journal of Modern Nonlinear Theory and Application* (IJMNTA)
23. *International Journal of Nonlinear Dynamics and Chaos in Engineering Systems* (Springer)
24. *International Journal of Nonlinear Dynamics and Control* (Inder Science Publishers)
25. *International Journal of Physical Sciences* (Academic Journals)
26. *International Review of Mechanical Engineering* (Praise Worthy Prize Publishing)
27. *International Scholarly Research Network Tribology* (ISRN Tribology)
28. *Journal Mechanics* (Faculty of Mechanical Engineering and Robotics of Polish Academy of Sciences, Academy of Mining and Metallurgy)
29. *Journal of Aerospace Science and Technology* (David Publishing)
30. *Journal of Applied Analysis* (Heldermann Verlag)
31. *Journal of Applied and Computational Mechanics*
32. *Journal of Applied Mathematical and Computational Sciences* (AMCOS)
33. *Journal of Applied Nonlinear Dynamics* (2015-)
34. *Journal of Chaotic Modeling and Simulation*
35. *Journal of Computer Assisted Mechanics and Engineering Sciences* (Polish Academy of Science, Institute of Fundamental Technological Research)
36. *Journal Differential Equations and Control Processes* (Mathematics and Mechanics Faculty of Saint-Petersburg State University)
37. *Journal of Dynamics of Machines* (Warsaw University of Technology)
38. *Journal of Electrical and Control Engineering* (JECE)
39. *Journal of Engineering (*Sultan Qaboos University*)*
40. *Journal of Engineering and Applied Sciences* (Medwell Online)
41. *Journal of Intelligent Information Management* (Scientific Research Publishing)
42. *Journal of Mathematical Control Science and Applications* (International Sciences Press)
43. *Journal of Modern Mechanical Engineering and Technology* (Avanti Publishers)
44. *Journal of Nonlinear Analysis: Hybrid Systems and Applications* (Pergamon Press)
45. *Journal of Nonlinear Analysis: Theory, Methods and Applications; Series B: Real World Problems* (Pergamon Press)
46. *Journal of Robotics & Automation*
47. *Journal of Solids and Structures* (SAS)
48. *Journal of Vibration Testing and System Dynamics* (L&H Scientific Publishing)
49. *JP Journal of Solids and Structures* 2007-2009 (Pushpa Publishing House)
50. *Mathematics in Engeenering, Science and Aerospace*
51. *Measurement-Automatics-Robotics* (Industrial Research Institute for Automation and Measurements)
52. *Modelling and Simulation in Biotechnology*
53. *Modern Mechanics and Mathematics: Essential Information for the Scientific, Technical and Medical Communities* (Taylor & Francis/CRC Press)
54. *Nonlinear Dynamics and Systems Theory*
55. *Nonlinear Studies* (I&S Publishers)
56. *Non-Linear Physics Science* (HEP, Springer-Verlag)
57. *Open Applied Mathematics Journal* (Bentham Science Publishers)
58. *Open Mechanical Engineering Journal* (Bentham Science Publishers)

59. *Open Mechanical Engineering Letters* (Bentham Science Publishers)
60. *Open Mechanical Engineering Reviews* (Bentham Science Publishers)
61. *Operations Research and Applications: An International Journal* (ORAJ)
62. *Physical Activity and Health*
63. *Problems of Computational Mechanics and Strength of Structures* (Ukraine)
64. *Recent Patents on Mechanical Engineering Journal* (Bentham Science Publishers)
65. *Romanian Journal of Acoustic and Vibration*
66. *Russian Journal of Nonlinear Dynamics*
67. *Saint Petersburg State University Studies in Mathematics*
68. *Science Road Journal* (New Century Publishing Group)
69. *SciFed Journal of Astrophysics*
70. *Tikrit Journal of Engineering Science* (TJES)
71. *Vestnik Saratovskogo Gosudarstvennogo Tekhnicheskogo Universiteta* (National University of Saratov)
72. *World Journal of Mechanics (*SCIRP Open Access Journals*)*
73. *World Journal of Modelling and Simulation (*World Academic Union*)*
74. *WSEAS Transactions on Systems and Control*
75. *WSEAS Transactions on Applied and Theoretical Mechanics*

CONFERENCE ORGANISATION

Scientific and organising committees- supervision

1. **International scientific conferences entited 'Dynamical Systems – Theory and Applications',** that take place in Lodz, cyclically, every two years since 1992

- I CONFERENCE, Łódź, 9 December 1992
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_1_pl.html)
  30 participants, 1 country, 25 papers, 1plenary lecture

- II CONFERENCE, Łódź, 6 December 1994
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_2_pl.html)
  35 participants, 1 country, 24 papers, 3 plenary letures

- III CONFERENCE, Łódź, 6 December 1995
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_3_pl.html)
  55 participants, 3 countries, 41 papers, 3 plenary lectures

- IV CONFERENCE, Łódź, 8-9 December 1997
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_4_pl.html)
  60 participants, 8 countries, 49 papers, 3 plenary lectures

- V CONFERENCE, Łódź, 6-8 December 1999
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_5_pl.html)
  70 participants, 8 countries, 63 papers, 5 plenary lectures

- VI KONFERENCJA, Łódź, 10-12 December 2001
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_6_pl.html)
  53 participants, 9 countries, 42 papers, 6 plenary lectures

- VII CONFERENCE, Łódź, 8-11 December 2003
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_7_pl.html)
  100 participants, 20 countries, 87 papers, 6 plenary lectures

- VIII CONFERENCE, Łódź, 12-15 December 2005
  (http://212.191.87.54:1616/k16/english/konferencje_en/en_confer8.htm)
  100 participants, 18 countries, 96 papers, 5 plenary lectures

- IX CONFERENCE, Łódź, 17-20 December 2007
  (http://212.191.87.54:1616/k16/english/konferencje_en/en_confer9.htm)
  118 participants, 19 countries, 108 papers, 4 plenary lectures

- X CONFERENCE, Łódź, 7-10 December 2009
  117 participants, 26 countries, 111 papers, 8 plenary lectures

- XI CONFERENCE, Łódź, 5-8 December 2011
  (http://dys-ta-2011.appspot.com/)
  120 participants, 22 countries, 104 papers, 8 plenary lectures

- XII CONFERENCE, Łódź, 2-5 December 2013
  123 participants, 21 countries , 111 papers, 3 plenary lectures

- XIII CONFERENCE, Łódź, 7-10 December 2015
  170 participants, 32 countries, 289 papers, 8 plenary lectures

- XIV CONFERENCE, Łódź, 11-14 December 2017
  180 participants, 32 countries, 370 papers, 6 plenary lectures

- XV CONFERENCE, Łódź, 2-5 December 2019
  180 participants, 35 countries, 360 papers, 8 plenary lectures

- XVI CONFERENCE, Łódź, 6-9 December 2021
  300 participants, 52 countries, 364 papers, 8 plenary lectures

2. **"International Conference Mechatronics: Ideas for Industrial Applications":**

- 16–18 May 2012,Warsaw (http://www.icm-iia.eu/)
  45 participants, 2 countries, 46 papers, 3 plenary lectures

- 12-14 May 2014, Łódź (http://www.icm-iia.eu/)
  46 participants, 2 countries, 44 papers, 4 plenary lectures

- 11-13 May 2015, Gdańsk (http://www.icm-iia.eu/)

- 13-15 September 2017, Gliwice/Wisła-Jawornik (http://www.icm-iia.eu/)

3. **"International Conference of the Polish Society of Biomechanics"**

Two units from Lodz University of Technology were responsible for the organisation of the conference: Faculty of Automation, Biomechanics and Mechatronics and Department of Organization and Management.

1-3 September 2014 , Łodzi

147 participants, 8 countries, 118 papers, 2 plenary lectures

4. **"Biomechanics- modelling, numerical evaluations, experimental research and biomedical applications"**
   (http://212.191.87.54:1616/k16/polski/konferencje/lodz_98_pl.html)
   7-8 December 1998, Łódź
   53 participants, 4 countries, 32 papers, 3 plenary lectures

5. **"International Conference on Nonlinearity, Bifurcation and Chaos: the Doors to the Future"**
   (http://212.191.87.54:1616/k16/polski/konferencje/dobieszkow_96_pl.html)
   16-18 September 1996, Dobieszków/Łódź
   60 participants, 15 countries, 50 papers, 8 plenary lectures

Organiser or/and chairman of conference sessions

1. Chairman of the Organising Committees of the 1-10th International Conferences on 'Dynamical Systems: Theory and Applications', Łódź 1992, 1994, 1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011.
2. Chairman of the Scientific and the Organising Committees of the International Conference 'Nonlinearity, Bifurcation, Chaos: The Doors to the Future'. Łódź-Dobieszków, September 16-18, 1996.
3. Organiser and Chairman of the Session 'Bifurcation and Chaos', 13th IMACS World Congress on Computational and Applied Mathematics, Dublin, Ireland, July 22-26, 1991
4. Chairman of the Session "Chaos", The International Conference on Fluid Mechanics and Theoretical Physics, Beijing, China, June 1-3, 1992
5. Chairman of the session 'Biology and Medicine', The 1st National Conference on MATLAB Users, Kraków, Poland, November 14-15, 1995
6. Chairman of the Session of Invited Lectures of the 1-9th International Conferences on 'Dynamical Systems: Theory and Applications', Łódź, Poland, 1992, 1994, 1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009
7. Chairman of the Session „Lineare und Nichtlineare Schwingungen", GAMM Jahrestagung, Braunschweig, Germany, 1994
8. Chairman of the Session „Parametric Oscillations", 2nd European Nonlinear Oscillations Conference, Prague, Czech Republic, September 9-13, 1996
9. Chairman of the Session on 19.08.1998, The International Symposium on Trends in Continuum Physics, Poznań, Poland, August 17-20, 1998
10. Chairman of the Session on September 16, 1998 of the EUROMECH Colloquium 386 „Dynamics of Vibro-Impact Systems", Loughborough, England, September 15-18, 1998
11. Organiser of the Conference „Biomechanics - Modelling, Numerical Simulations, Experimental Investigations and Biomedical Applications", Łódź, Poland, December 7-8, 1998
12. Chairman of the Session „Continuous Systems II", EUROMECH, 3rd ENOC, Copenhagen (Lyngby), Denmark, August 10, 1999
13. Chairman of the Plenary Lecture Session, EUROMECH, 3rd ENOC, Copenhagen (Lyngby), Denmark, August 12, 1999
14. Chairman of the Session 'Dynamics of Discrete Mechanical Models', XIXth Symposium 'Vibrations in Physical Systems', Poznań – Błażejewko, Poland, May 24-27, 2000
15. Chairman and Organiser of the Minisymposium 'Asymptotic Approaches: The Doors Between Pure and Applied Sciences', The Third World Congress of Nonlinear Analysis, Catania, Italy, July 19-26, 2000
16. Chairman of the Session 'Vibration and Control of Non-Smooth Dynamical Systems (VIB-35)' (part I and part II), DETC'01, 2001 ASME Design Engineering Technical Conferences, Pittsburgh, Pennsylvania, USA, September 9-12, 2001
17. Chairman of the Session 'Dynamics of Discrete Mechanical Models', XXth Jubilee Symposium 'Vibrations in Physical Systems', Poznań – Błażejewko, Poland, May 22-25, 2002
18. Chairman of Section I 'General Theory of Oscillations', August 19, 2002; Chairman of Section IV 'Applied Problems of Nonlinear Oscillations, August 22, 2002, Fourth Euromech Nonlinear Oscillations Conference (EUROMECH), Moscow, Russia, August 19-23, 2002
19. Chairman of the Session 'Micro-Electro-Mechanical Systems', IUTAM Symposium 'Chaotic Dynamics and Control of Systems and Processes in Mechanics', Rome, Italy, June 8-13, 2003
20. Chairman of the Session I and II 'Nonsmooth Dynamics', International Conference Physics and Control, PHYSCON 2003, Saint Petersburg, Russia, August 20-22, 2003
21. Chairman of the Session "Non-linear Modes: Methods" of EUROMECH Colloqium 457, Frejus, France, June 7-9, 2004
22. Organizer and Chairman of the Mini-Symposium "Applications of Mathematics to Nonlinear Mechanics" in the 4th World Congress of Nonlinear Analysts, WCNA 2004, Orlando, Florida, June 30 – July 7, 2004
23. Organizer and Co-chairman of the Mini-Symposium "Asymptotic Methods in Nonlinear Dynamics" in 5th EUROMECH Nonlinear Dynamics Conference, ENOC 2005, Eindhoven Univeristy of Technology, Eindhoven, The Netherlands, August 7-12, 2005

24. Organizer and Chairman of the Mini-Symposium "Non-Smooth Mechanical Systems" in the ASME International 20th Bienial Conference on Mechanical Vibration and Noise for IDETC, Long Beach, California, USA, September 25-28, 2005
25. Chairman of the Session (04.05.2005) at the Workshop on Nonlinear Phenomena: Modeling and Their Applications, Rio Claro, Brazil, May 2-4, 2005
26. Chairman of the Session (30.09.2005) 'Machine Dynamics, Monitoring and Diagnosis Methods', 11th International Conference on Vibration Engineering, Timisoara, Romania, September 27-30, 2005
27. Chairman of the Session (22.05.2006) 'Vibration and Acouctics', 23rd Southeastern Conference on Theoretical and Applied Mechanics, Mayagüez, Puerto Rico, May 21-23, 2006
28. Chairman of the Session (7.09.2006), International Conference 'Biomechanics 2006', Zakopane, Poland, September 6-8, 2006
29. Chairman of the Session (19.09.2006), IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty, Nanjing, China, September 18-22, 2006
30. Chairman of the Session 'Vibration of Mechanical Systems' of the International Conference on Actual Problems of Applied Mathematics and Mechanics (the 80-anniversary of the birthday of Prof. V.L. Rvachev), Kharkov, Ukraine, October 23-26, 2006
31. Chairman of the Session (1.03.2007), XLVI Symposium 'Modelling in Mechanics', Wisła, Poland, February 26 – March 2, 2007
32. Chairman of the Session 'Nonlinear Dynamics' 8B (18.04.2007), International Conference on Engineering Dynamics, Carvoeiro, Algarve, Portugal, April 16-18, 2007
33. Chairman of the Session (1.06.2007), 14th International Workshop on Dynamics and Control, Moscow-Zvenigorod, Russia, May 28 – June 2, 2007
34. Chairman of the Session 'Smart Materials for Vibration Reduction' (16.06.2007), 8th Conference on Active Noise and Vibration Control Systems, Cracow - Krasiczyn, Poland, June 11-14, 2007
35. Chairmanship of the TC Nonlinear Oscillations Meeting of the 12th World Congress in Mechanism and Machine Science (IFToMM), Besançon, France, June 20, 2007
36. Chairman of the Session (21.06.2007) of the Nonlinear Oscillations (NO-3) of the 12th World Congress in Mechanism and Machine Science (IFToMM), Besançon, France, June 17-21, 2007
37. Chairman of the Session 'Shells' (9.07.2007) of the EUROMECH Colloquium 483 on Geometrically Non-linear Vibrations of Structures, Porto, Portugal, July 9-11, 2007
38. Chairman of the Session 'Fundamental Problems III' (30.08.2007) of the 1st Polish Congress of Mechanics, Warsaw, Poland, August 28-31, 2007
39. Chairman of the Session 'Fundamental Problems V' (31.08.2007) of the 1st Polish Congress of Mechanics, Warsaw, Poland, August 28-31, 2007
40. Chairman of the plenary lecture and the session 2 (May 21, 2008) of the European Mechanics Colloquium 498 "Nonlinear Dynamics of Composite and Smart Structures", Kazimierz Dolny, Poland, May 21-24, 2008
41. Member of the Organizing Committee - V International Scientific Conference Topical Problems of Deformable Solid Mechanics, Donetsk, Ukraine, June 10-13, 2008
42. Chairman and Organizer of the Minisymposium 'Asymptotic Methods', 6th Euromech Nonlinear Dynamics Conference (ENOC 2008), Saint Petersburg, Russia, June 30 - July 4, 2008
43. Member of the Organizing and Scientific Committee - 5th International Conference of Applied Mathematics and Computing, Plovdiv, Bulgaria August 12-18, 2008
44. Chairman of the Session 7 "Scientific Application" (September 9), The Second IASTED Africa Conference on "Modelling and Simulation", Gaborone, Botswana, September 8-10, 2008
45. Organiser of the Session S5 "Oscillations" (February 10), The 80th Annual Meeting of the International Association of Applied Mathematics and Mechanics GAMM 2009', Gdansk, Poland, February 9-13, 2009
46. Chairman of the Keynote Session (June 4), Chaotic Modeling and Simulation International Conference (CHAOS 2009), Chania, Greece, June 1-5, 2009
47. Chairman of the Session 1 titled "Model Reduction I" of the EUROMECH Colloquium 503, Frascati (Rome), Italy, September 27 - October 2, 2009
48. Chairman of the Session "Automatic Control (CONTROL)" of the International Multiconference WSEAS 2010, May 3-6, 2010, Kantaoui, Sousse, Tunisia.

49. Chairman of the Session B of the XXIV Symposium "Vibrations in Physical Systems", May 12-15, 2010, Bedlewo (Poznan), Poland.
50. Chairman of the Session of the 1st day Key-note Speakers Session of the WSEAS International Conferences, July 22-25, 2010, Kanoni, Corfu Holiday Palace, Greece.
51. Chairman of the Session 'Applied Mechanics and Geological Applications' of the WSEAS International Conferences, July 22-25, 2010, Kanoni, Corfu Holiday Palace, Greece.
52. Chairman of the Keynote Lecture Session II, International Conference BIOMECHANICS 2010, August 25-28, 2010, Warsaw, Poland.
53. Organization and chairmanship of the section 'Fundamental and Interdisciplinary Problems' of the II-nd Congress of Polish Mechanics, August 29 - September 2, 2011, Poznan, Poland.
54. Organization and co-chairmanship of the session "Active vibration control' of the 10th biennial International Conference on Vibration Problems, September 5-8, 2011, Prague, Czech Republic .
55. Chairman of the Session 'Non-linear Dynamics' of the International Conference on Structural Engineering Dynamics (ICEDyn 2011), June 20-22, 2011, Tavira, Portugal.
56. Chairman of the Session 6B of the International Conference on Structural Engineering Dynamics (ICEDyn 2011), June 20-22, 2011, Tavira, Portugal.
57. Organizer and Chairman of the Minisymposium MS02 "Asymptotic Methods", 7th European Nonlinear Dynamics Conference (ENOC 2011), July 24-29, 2011, Rome, Italy.
58. Chairman of the Session RS "Dynamics and Control", 7th European Nonlinear Dynamics Conference (ENOC 2011), July 24-29, 2011, Rome, Italy.
59. Chairman of the Session MS13 "Bursting and Chaos in Physiological and Population Models", 7th European Nonlinear Dynamics Conference (ENOC 2011), July 24-29, 2011, Rome, Italy.
60. Co-Chairman of the Session MS09 "Nonlinear Dynamics of Structures and Machines I", 7th European Nonlinear Dynamics Conference (ENOC 2011), July 24-29, 2011, Rome, Italy.
61. Chairman of the International Conference 'Mechatronics: Ideas for Industrial Applications', May 16-18, 2012, Warsaw, Poland.
62. Chairman of Sessions 1,5 and 9 of the International Conference 'Mechatronics: Ideas for Industrial Applications', May 16-18, 2012, Warsaw, Poland.
63. Chairman of the Session HS14A (Keynote Talk: S. Vassilyev) of the World Congress: 9th International Conference on 'Mathematical Problems in Engineering, Aerospace and Sciences', July 10-14, 2012, Vienna, Austria.
64. Chairman of the Session Invited Lcture No 5 (Keynote Talks: R. Bedzinski and M. P. Pitkin) of the International Conference of the Polish Society of Biomechanics, Biomechanics 2012, September 16-19, 2012, Białystok, Poland.
65. Chairman of two Sessions of Invited Talks of the 'Dynamics Days South America 2012', November 20-23, 2012, Cartagena de Indias, Colombia.
66. Organiser and Chairman of the Thematic Session 'Chaotic Dynamics of Structural Members' of the 10th Conference 'Shell Structures: Theory and Applications' (SSTA 2013), October 16-18, 2013, Gdansk, Poland.
67. Chairman of 2 sessions of the 6th Chaotic Modeling and Simulation International Conference (CHAOS 2013), June 11-14, 2013, Istanbul, Turkey.
68. Chairman of the Session hold on July 23 (Keynote Talk: M. Ortiguera) of the Mathematical Methods in Engineering International Conference, July 22-26, 2013, Porto, Portugal.
69. Local Organizing Chair of the International Conference on Mathematical Methods, Mathematical Models and Simulation in Science and Engineering (MMSSE 2014), February 22-24, 2014, Interlaken, Switzerland.
70. Chairman of the thematic session 'Nonlinear Dynamical Phenomena in Mechanical and Mechatronical Systems' of the XIV Pan-American Congress of Applied Mechanics, March 24-28, 2014, Santiago, Chile.
71. Chairman of the thematic session 'Vibration' of the XIV Pan-American Congress of Applied Mechanics, March 24-28, 2014, Santiago, Chile.
72. Organiser of the Session MS-02 'Asymptotic Methods' of the 8th European Nonlinear Dynamics Conference, July 6-11, 2014, Vienna, Austria.
73. Chairman of the Session MS-02 'Asymptotic Methods 2' of the 8th European Nonlinear Dynamics Conference, July 7, 2014, Vienna, Austria.

74. Chairman of the Session MS-02 'Asymptotic Methods 3' of the 8th European Nonlinear Dynamics Conference, July 10, 2014, Vienna, Austria.
75. Chairman of the Keynote Talks Session (D1080, July 16) of the World Congress: 10th International Conference on Mathematical Problems in Engineering, Aerospece and Sciences, July 15-18, 2014, Narvik, Norway.
76. Chairman of the Scientific Committee of the International Conference "Mechatronics: Ideas for Industrial Applications", May 11-13, 2015, Gdansk, Poland.
77. Chairman of the Session 5B 'Nonlinear Dynamics' of the International Conference on Structural Engineering Dynamics (ICEDyn 2015), June 22-24, 2015, Logos, Portugal.
78. Chairman of the First Session of the IUTAM Symposium on 'Analytical Methods in Nonlinear Dynamics', July 6, 2015, Frankfurt, Germany.
79. Chairman of the Scientific Session of the 27th Symposium on Vibrations in Physical Systems, May 9-11, 2016, Poznań-Będlewo, Poland.
80. Chairman of the 9th Chaotic Modeling and Simulation International Conference, May 23-26, 2016, London, UK.
81. Chairman of the Scientific Session of the 6th International Advances in Applied Physics and Materials Science Congress & Exhibition, June 1-3, 2016, Istanbul, Turkey.
82. Chairman of the Scientific Session of the Sixth Conference on Numerical Analysis and Applications (NAA'16), June 20, 2016, Lozenetz, Bulgaria.
83. Chairman of the Keynote Speech Session Opening Remark of the 5th International Conference on Power Science and Engineering (ICPSE 2016), December 14-17, 2016, Venice, Italy.
84. Honorary chairman of the scientific/program committee of the 4th International Conference "Mechatronics: Ideas for Industrial Applications", September -13-15, 2017, Wisła-Jawornik, Poland.
85. Chairman of the Session 7, EUROMECH Colloquium on Rolling Contact Mechanics for Multibody System Dynamics, April 10-13, 2017, Funchal, Madeira, Portugal.
86. Chairman of the Session of the IV International School-Conference for Young Scientists "Nonlinear Dynamics of Machines" (SCHOOL-NDM 2017), April 18-21, 2017, Moscow, Russia.
87. Organizer (with I.V. Andrianov and L.I. Manevitch) of the Sessions MS02 (Asymptotic Methods), 9th European Nonlinear Dynamics Conference (ENOC 2017), June 25-30, 2017, Budapest, Hungary.
88. Chairman of the Session MS02/II (Asymptotic Methods), 9th European Nonlinear Dynamics Conference (ENOC 2017), June 27, 2017, Budapest, Hungary.
89. Chairman of the Session MS02/III (Asymptotic Methods), 9th European Nonlinear Dynamics Conference (ENOC 2017), June 27, 2017, Budapest, Hungary.
90. Chairman of the Session 7A (Model validation/uncertainty), International Conference on Structural Engineering Dynamics, July 4, 2017, Ericeira, Portugal.
91. Chairman of the Keynote Lecture 03 (P. Hagedorn), International Conference on Structural Engineering Dynamics, July 4, 2017, Ericeira, Portugal.
92. Chairman of the Session Three 'Electronic Information System and Intelligent Control Technology' of the 5th International Conference on Mechanical Properties of Materials (ICMPM 2018) and 7th International Conference of Mechatronics and Control Engineering (ICMCE 2018), November 28, Amsterdam, Netherlands.
93. Chairman of the Session 'Composite and Multifunctional Structures' of the First International Nonlinear Dynamics Confererence (NODYCON), February 17-20, Roma, Italy.
94. Chairman of the Session 'Nonsmooth Systems III' of the First International Nonlinear Dynamics Confererence (NODYCON), February 17-20, Roma, Italy.
95. Chairman of the Session MS10 (Asymptotic Approaches in Nonlinear Problems of Mechanics of Solids) of the International Conference on Nonlinear Solid Mechanics (ICoNSoM 2019), June 16-19, Roma, Italy.
96. Chairman of the Session I (Vibration) of the International Conference on Acoustics and Vibration of Mechanical Structures (AVMS 2019), May 30-31, 2019, Timisoara, Romania.
97. Chairman of the Session 1C (Analytical Methods) of the International Conference on Structural Engineering Dynamics (ICEDyn 2019), June 24-26, 2019, Viana do Castelo, Portugal.

98. Organizer and Chairman of the 8th International Conference on Mechatronics and Control Engineering (ICMCE 2019), July 23-25, 2019, Paris, France.
99. Organizer and Chairman of the 6th International Conference on Mechanical Properties of Materials (ICMPM 2019), July 23-25, 2019, Paris, France.
100. Chairman of the Session I 'Control System' of the 3rd International Conference on Information Processing and Control Engineering (ICIPCE 2019) and the 2nd International Conference on Robot Systems and Applications (ICRSA 2019), August 4-7, 2019, Moscow, Russia.
101. Chairman of the Session of the Symposium 'Nonlinear Dynamics - Scientific work of Prof. Dr Katica (Stefanovic) Hedrih', September 4-6, 2019, Belgrade, Serbia.
102. Co-Chairman of the Session MS23 (Thin-Walled Structures - Analysis and Applications) of the 4th Polish Congress of Mechanics and 23rd International Conference on Computer Methods in Mechanics PCM-CMM-2019, September 8-12, 2019, Kraków, Poland.
103. Chair during the Keynote Session 'Unpredictability in physical systems: Basin entropy and Wada basins' by M.A.F. Sanjuan at the 15th International Conference 'Dynamical Systems - Theory and Applicattions', December 2-5, 2019, Łódź, Poland.
104. Chairman of the Session 'Control of Nonlinear Systems II' of the Second International Nonlinear Dynamics Conference (NODYCON2021), February 16-19, 2021, Rome, Italy.
105. Chairman of the Session 'Computational Nonlinear Dynamics V' of the Second International Nonlinear Dynamics Conference (NODYCON2021), February 16-19, 2021, Rome, Italy.

Member of conferences' scientific committees

1. The I-XI 'International Conferences on Dynamical Systems: Theory and Applications', Łódź, Poland, 1992, 1994, 1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013
2. The YUCTAM NIS'95, XXI Yugoslav Congress of Theoretical and Applied Mechanics, May 29-June 3, 1995
3. The 1st National Conference of MATLAB Users, Kraków, Poland, November 13-15, 1995
4. The International Conference 'Nonlinearity, Bifurcation, Chaos: The Doors to the Future', Łódź-Dobieszków, Poland, September 16-18, 1996
5. The IX Symposium 'Dynamics of Construction', Rzeszów-Solina, Poland, October 9-11, 1996
6. The 1st (and 2nd) National Conference on Methods and Computer Systems in a Scientific Research and Engineering Design, Kraków, Poland, November 25-26, 1997 (and November 25-27, 1999)
7. 9th International Symposium on Systems-Modelling-Control, Zakopane, Poland, April 27 - May 1, 1998
8. XVI National Conference on Theory of Mechanics and Machines, Jawor, Poland, September 24-29, 1998.
9. Impact Resistance of Constructions, Rynia, Poland, December 9-11, 1998
10. IVth Conference 'Wave Methods and Mechanics in Biomedical Engineering'99', Zakopane, Poland, April 21-23, 1999
11. The Second Bialorussian Congress on Theoretical and Applied Mechanics, Minsk, Belarus, June 1999
12. IVth Scientific Conference 'Biomechanics'99', Polanica Zdrój, Poland, September 9-11, 1999
13. 17th Biennial Conference on Mechanical Vibration and Noise, Las Vegas, Nevada, USA, September 12-15, 1999
14. XIX Symposium "Vibrations in Physical Systems', Błażejewko, Poland, May 24-27, 2000
15. XVII National Scientific – Didactic Conference of Theory of Mechanics and Machines, Warszawa – Jachranka, Poland, September 6-8, 2000
16. 10th – International Conference on System-Modelling-Control, Zakopane, Poland, May 21-25, 2001
17. The Fifth Yugoslav Symposium on Nonlinear Mechanics, 'Nonlinear Sciences at the Threshold of the Third Millenium', Niš, Yugoslavia, October 2-5, 2000
18. 70 years birthday and 45 years of the scientific activity of Prof. Dr hab. Józef Giergiel and the 5th School on Modal Analysis, Kraków, Poland, December 12-14, 2000

19. EuroConference on Computational Mechanics and Engineering Practice, Szczyrk, Poland, September 19-21, 2001
20. 6th School on Modal Analysis, Kraków, Poland, December 11-12, 2001
21. Polish Mechanics in the Threshold of the XXI Century, Kazimierz Dolny, Poland, November 13-16, 2001
22. XX Symposium "Vibrations in Physical Systems', Błażejewko, Poland, May 22-25, 2002
23. XVIII National Scientific – Didactic Conference of Theory of Mechanics and Machines, Wrocław-Lądek Zdrój, Poland, September 18-20, 2002
24. International Conference on Biomechanics'2001, Zakopane, Poland, September 3-6, 2001
25. Impact Resistance of Constructions, Warszawa-Rynia, Poland, October 23-25, 2002
26. Summer Interdisciplinary School, Nonlinear Dynamics, Chaos, Catastrophes and Control, Riga-Jurmala, Latvia, July 1-5, 2002
27. 7th School on Modal Analysis, Kraków, Poland, December 10-11, 2002
28. 7th Conference on Shell Structures – Theory and Applications, Gdańsk – Jurata, Poland, October 9-11, 2002
29. 6th International Symposium on Nonlinear Mechanics, Nonlinear Sciences and Applications, Niš, Yugoslavia, August 24-29, 2003
30. 6th International Conference on Vibration Problems, ICOVP 2003, Liberec, Czech Republic, September 8-12, 2003
31. 2nd International Conference on Modelling and Simulation of the Friction Phenomena in the Physical and Technical Systems, FRICTION 2002, Warsaw, Poland, December 2-3, 2002
32. EUROMECH Colloquium 457, Nonlinear Modes of Vibrating Systems, Fréjus, France, June 7-9, 2004
33. Conference on Nonlinear Dynamics ND-KPI 2004, Kharkov, Ukraine, September 14-16, 2004
34. XXI Symposium "Vibrations in Physical Systems', Kiekrz, Poland, May 26-29, 2004
35. International Conference Biomechanics 2004, Gdańsk, Poland, September 9-11, 2004
36. Member of the Global Organizing Committee, The IVth World Congress of Nonlinear Analysts (under the auspices of the International Federation of Nonlinear Analysts), The IVth World Congress of Nonlinear Analysts, Orlando, Florida, USA, June 30-July 7, 2004
37. International Symposium on Trends in Continuum Physics, TRECOP'04, Poznań, Poland, November 17-19, 2004
38. 8th Conference on Shell Structures – Theory and Applications, Gdańsk – Jurata, Poland, October 12-14, 2005
39. 11th International Conference on System-Modelling-Control, Zakopane, Poland, October 17-21, 2005
40. 6th International Conference on Damage Assessment of Structures, DAMAS2005, Gdańsk, Poland, July 4-6, 2005
41. The Scientific Conference 'Mechanics of Non-Homogeneous Media', Zielona Góra - Łagów, Poland, May 12-13, 2005
42. XXVIth International Conference on Plates and Shells, Saratov, Russia, September 19-22, 2005
43. 9th International Conference on Stability, Control and Rigid Bodies Dynamics, Donetsk, Ukraine, September 5-10, 2005
44. 11th International Conference on Vibration Engineering, Timisoara, Romania, September 27-30, 2005
45. 11th Conference on Vibro-acoustics and Vibro-technics, WIBROTECH 2005, Warsaw, Poland, November 3-4, 2005
46. 10th School on Modal Analysis, Kraków, Poland, December 1-2, 2005
47. International Conference "The Fifth Okunev's Readings", in honour of the 50th Anniversary of Dept. of Theoretical Mechanics and Ballistics of BSTU, Saint Petersburg, Russia, June 26-29, 2005
48. XXII Symposium "Vibrations in Physical Systems", Poznań - Będlewo, Poland, April 19-22, 2006
49. 6th Conference 'Workshop on Mechatronical Design', Cracow, Poland, June 2-3, 2006
50. International Conference on Biomechanics 2006, Zakopane, Poland, September 6-8, 2006
51. International Conference on Nonlinear Dynamics of Mechanical and Biological Systems, Saratov, Russia, September 19-22, 2006
52. XXth Conference Scientific-Didactic of Theory of Machines and Mechanisms, Zielona Góra, Poland, September 18-19, 2006

53. 8th International Conference on Computational Structures Technology, Las Palmas de Gran Canaria, Spain, September 12-15, 2006
54. International Conference on Actual Problems of Applied Mathematics and Mechanics (the 80-anniversary of the birthday of Prof. V.L. Rvachev), Kharkov, Ukraine, October 23-26, 2006
55. The Scientific Session 'Applied Mechanics 2006', Bydgoszcz, Poland, October, 2006
56. 4th International Conference on Modelling and Simulation of the Friction Phenomena in the Physical and Technical Systems, FRICTION 2006, Warsaw, Poland, June 6, 2006
57. 14th Scientific Seminar on Mechanics, Warsaw, Poland, June 2006
58. 4th Scientific Conference on Impact Resistance of Constructions, WAT, Warsaw - Rynia, Poland, December 5-8, 2006
59. 11th School on Modal Analysis, Kraków, Poland, December 4-5, 2006
60. EUROMECH Colloquium 483 on Geometrically Non-linear Vibrations of Structures, Porto, Portugal, September 5-7, 2007
61. First International Scientific Congress on Mechanics, Warsaw, Poland, August 28-31, 2007
62. First International Conference on Engineering Dynamics, ICED 2007, Algarve, Carvoeiro, Portugal, April 16-18, 2007
63. 8th Conference on Active Noise and Vibration Control Methods, MARDiH'2007, Kraków-Krasiczyn, Poland, June 11-14, 2007
64. 7th Workshop on Mechatronics Designing – Education in Mechatronics, Cracow, Poland, May 28-29, 2007
65. 2nd International Conference on Nonlinear Dynamics 2007 (in honour of Alexander Mikhailovich Lyapunov 150th Anniversary), Kharkov, Ukraine, September 25-28, 2007
66. International Conference on Modern Nonlinear Theory - Bifurcation and Chaos (MNT 2007), Montreal, Canada, May 30 - June 01, 2007
67. International Conference on Computer Aided Engineering (CAE 2007), IIT Madras, Chennai, India, December 13-15, 2007
68. The Nonlinear Dynamics and Chaos of Composite Smart Structures Conference, Kazimierz Dolny, Poland, May 21-24, 2008
69. VIII Mechatronic Design Workshop, Cracow, Poland, April 28-29, 2008
70. 2nd Conference "Mechanics of Non-homogeneous Media"[, Lagow, Poland, May 15-17, 2008
71. XVI French-Polish Seminar of Mechanics, Warsaw, Poland, May 15, 2008
72. The Nonlinear Dynamics and Chaos of Composite Smart Structures Conference, Kazimierz Dolny, Poland, May 21-24, 2008
73. XXIII Symposium 'Vibrations in Physical Systems', Poznan-Bedlewo, Poland, May 28-31, 2008
74. Chaotic Modeling and Simulation International Conference (CHAOS2008), Chania, Crete, Greece, June 3-6, 2008
75. International Conference on Mechanics and Ballistics "6th Okunev's Readings", Saint Petersburg Russia, June 23-27, 2008
76. 7th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2008), Genoa, Italy, June 25-27, 2008
77. International Conference on Nonlinear Phenomena in Polymer Solids and Low-dimensionaal Systems, Moscow, Russia, July 8-11, 2008 (member of the advisory committee and the program committee)
78. 4th International Conference on Mechatronic Systems and Materials (MSM 2008), Bialystok, Poland, July 14-16, 2008
79. 5th International Conference of Applied Mathematics and Computing, Plovdiv, Bulgaria, August 12-18, 2008
80. International Conference on Biomechanics 2008, Wroclaw, Poland, August 31 - September 3, 2008
81. International Symposium RA'08 Rare Attractors and Rare Phenomena in Nonlinear Dynamics, Riga – Jurmala, Latvia, September 8–12, 2008
82. XXIth Conference Scientific-Didactic of Theory of Machines and Mechanisms, Bielsko-Biała - Szczyrk, Poland, September 22-25, 2008
83. The Scientific Session 'Applied Mechanics 2008', University of Technology and Life Sciences, Bydgoszcz, Poland, October, 2008
84. International Program Committee (IPC) of the IASTED International Conference on Modern Nonlinear Theory (MNT 2008), Orlando, Florida, USA, November 16-18, 2008
85. 13th School of Modal Analysis, Cracow, Poland, December 4-5, 2008

86. Member of the Editorial Board of CST2008: The Ninth International Conference on Computational Structures Technology, Athens, Greece, September 2-5, 2008
87. 9th International Conference on Active Noise and Vibration Control Methods (MARDiH 2009), Zakopane, Poland, May 24-27, 2009
88. 2nd Chaotic Modeling and Simulation International Conference (CHAOS 2009), Chania, Crete, Greece, June 1 - 5, 2009
89. International Conference on Structural Engineering Dynamics (ICEDYN 2009), Ericeira, Portugal, June 15-17, 2009
90. The 9th Conference SHELL STRUCTURES Theory and Applications, Gdansk-Jurata, Poland, October 14-16, 2009
91. XIth Scientific-Technic Conference - Programs FEM in Supporting Analysis, Design and Production, Warsaw, Poland, October 20-23, 2009
92. Vth Scientific-Technic Conference - Resistance to Impacts of Constructions, Warsaw, Poland, October 20-23, 2009
93. XXIV Symposium 'Vibrations in Physical Systems', Poznan-Bedlewo, Poland May 12-15, 2010
94. The 3rd Chaotic Modeling and Simulation International Conference (CHAOS2010), Chania, Crete, Greece, June 1-4, 2010
95. III Scientific Conference 'Mechanics of Non-Homogeneous Media', Zielona Gora - Lagow, Poland, June 4-6, 2010
96. XXII National and II International Scientific-Didactic Conference of Theory of Machines and Mechanism (IFToMM), Bialystok-Augustow, Poland, June 27-30, 2010
97. The International Symposium on Trends in Continuum Physics 'TRECOP 2010', Malta, July 16-20, 2010
98. International Conference of the Polish Society of Biomechanics - 'Biomechanics 2010', Warsaw, Poland, August 25-28, 2010
99. The Tenth International Conference on Computational Structures Technology, Valencia, Spain, September 14-17, 2010
100. The 3rd International Conference "NONLINEAR DYNAMICS - 2010", Kharkov, Ukraine, September 21-24, 2010
101. Scientific Session 'Applied Mechanics 2010', Bydgoszcz, Poland, November 19, 2010
102. XVth Scientific Conference on Vibro-Acoustic and Vibro-Technics, Xth Seminar on Vibro-Acoustic in Technical Systems 'VibroTech 2010', Warsaw-Sekocin Stary, Poland, November 29-30, 2010
103. 10th Conference on Active Noise and Vibration Control Methods 'MARDiH 2011', Krakow-Wojanow, Poland, June 6-8, 2011
104. IFToMM 2011 World Congress, Guanajuato, Mexico, June 19-25, 2011
105. International Conference on Structural Engineering Dynamics (ICEDyn 2011), Tavira, Algarve, Portugal, June 20-22, 2011
106. International Conference on Mechanics and Ballistics "7th Okunev Readings", St. Petersburg, Russia, June 20-24, 2011
107. 3th Serbian (28th Yu) Congress on Theoretical and Applied Mechanics, Vlasina lake, Serbia, July 5-8, 2011
108. 1st International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2011), Noordwijkerhout, The Netherlands, July 29-31, 2011
109. 10th biennial International Conference on Vibration Problems (ICoVP-2011), Prague, Czech Republic, September 5-8, 2011
110. XIIth Scientific-Technical Conference on Computers Technology in Engineering (TKI 2011), Warsaw, Poland, October 18-21, 2011
111. Xth International Brake and Safety Conference, Łódź-Rogów, Poland, November 3-4, 2011
112. XXV Jubilee Symposium on Vibrations in Physical Systems, Poznan-Bedlewo, Poland, May 15-19, 2012
113. International Conference 'Mechatronics: Ideas for Industrial Applications', Warsaw, Poland, May 16-18, 2012
114. VII International Conference 'Modelling and Simulation of the Friction Phenomena in the Physical and Technical Systems' (FRICTION 2012), Warsaw, Poland, May 22, 2012
115. 2nd International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2012), Rome, Italy, July 28-31, 2012
116. XXIII National and III International Scientific-Didactic Conference of Theory of Machines and Mechanism (IFToMM), Koszalin-Kołobrzeg, Poland, September 19-22, 2012

117. The Eleventh International Conference on Computational Structures Technology (CST 2012), Dubrovnik, Croatia, September 4-7, 2012
118. International Conference of the Polish Society of Biomechanics "BIOMECHANICS 2012", Bialystok, Poland, September 16-19, 2012
119. 7th Scientific Session on Applied Mechanics, Bydgoszcz, Poland, November 23, 2012
120. 16th School of Modal Analysis, Kraków, Poland, November 29-30, 2012
121. 5th International Conference on Scientific Aspects of Unmanned Mobile Object (SAUMO '2013), Deblin, Poland, May 15-17, 2013
122. 12-th International Symposium 'Acoustic and Vibration of Mechanical Structures' (AVMS 2013), Timisoara, Romania, May 23-24, 2013
123. 11th Conference on Active Noise and Vibration Control Methods (MARDiH 2013), Krakow-Rytro, Poland, May 26-29, 2013.
124. International Conference on Structural Engineering Dynamics (ICEDyn2013), Sesimbra, Portugal, June 17-19, 2013
125. Nonlinear Dynamics, Sevastopol, Russia, June 19-23, 2013
126. International Conference on Mechanics and Ballistics '8th Okunev's Readings', St. Petersburg, Russia, June 25-28, 2013
127. Mathematical Methods in Engineering (MME2013), Porto, Portugal, July 22-26, 2013
128. 3rd International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2013), Reykjavik, Iceland, July 29-31, 2013
129. 1st International Conference 'Shell and Membrane Theories in Mechanics and Biology: From Macro to Nanoscales Structures' (SMT in TB), Minsk, Belarus, September 16-20, 2013
130. XIth International Brake and Safety Conference, Uniejów, Poland, October 24-25, 2013
131. 17th School of Modal Analysis, Kraków, Poland, December 2-3, 2013
132. International Conference on Computer Aided Engineering, IIT Madras, Chennai, India, December 19-21, 2013.
133. 14th WSEAS International Conference on Robotics, Control and Manufacturing Technology (ROCOM'14), Kuala Lumpur, Malaysia, April 23-25, 2014.
134. XXVI Symposium on Vibrations in Physical Systems, May 4-8, Poznan-Bedlewo, Poland.
135. The International Symposium on Trends in Continuum Physics (TRECOP 2014), May 4-7, Bedlewo, Poland.
136. XIIIth Scientific-Technical Conference on Computers Technology in Engineering (TKI 2014), May 6-9, 2014, Licheń Stary, Poland.
137. International Conference on Structural Nonlinear Dynamics and Diagnosis, Agadir, Morocco, May 19-21, 2014
138. International Advisory Committee of the World Congress: 10 International Conference on Mathematical Problems in Engineering, Aerospace and Sciences, July 15-18, 2014, Narvik, Norway.
139. 4th International Conference on Dynamics, Vibration, and Control (ICDVC-2014), Shanghai University, China, August 22-24, 2014.
140. 4th International Conference on Simulation and Modeling Methodologies, Technologies and Applications (SIMULTECH 2014), Vienna, Austria, September 2-4, 2014
141. The Twelfth International Conference on Computational Structures Technology (CST2014), Naples, Italy, September 2-5, 2014.
142. XXVI Symposium on Vibrations in Physical Systems, Poznan-Bedlewo, Poland, May 4-8, 2014.
143. XXIV International Conference on Theory of Machines and Mechatronic System, Wroclaw, Poland September 21-24, 2014.
144. 8th Scientific Session on Applied Mechanics, Bydgoszcz, Poland, November 28, 2014.
145. 13-th International Symposium 'Acoustic and Vibration of Mechanical Structures' (AVMS 2015), Timisoara, Romania, May, 2015.
146. The 4-th International Conference on Mechanical Automation and Materials Engineering (ICMAME), Wuhan, China, May 23-24, 2015.
147. The 7-th International Symposium on Mechanics of Materials and Structures, Augustów, Poland, June 3-6, 2015.
148. 12th Conference on Active Noise and Vibration Control Methods (MARDiH'2015), Krakow - Krynica-Zdroj, Poland, June 8-11, 2015.
149. International Conference on Structural Engineering Dynamics (ICEDyn2015), Algavre, Portugal, June 22-24, 2015.
150. 11th International Conference Mechatronic Systems and Materials (MSM 2015), Kaunas, Lithuania, July 7-9, 2015.

151. IUTAM Symposium on 'Analytical Methods in Nonlinear dynamics', Frankfurt, Germany, July 6-9, 2015.
152. 2015 Summer Simulation Multi-Conference (SummerSim'15), Chicago, USA, 26-29 July, 2015.
153. XIIth International Brake and Safety Conference, Rydzyn, Poland, October 15-17, 2015.
154. 3rd Polish Congress of Mechanics and 21st International Conference on Computer Methods in Mechanics (PCM CMM 2015), Gdansk, Poland, September 8-11, 2015.
155. 12th International Conference on Vibration Problems (ICoVP-2015), Guwahati, India, December 14-17, 2015.
156. 2nd International Conference on Mechanical Properties of Materials (ICMPM 2015), Amsterdam, Netherlands. December 15-16, 2015.
157. XXVII Symposium on Vibrations in Physical Systems, Poznan-Bedlewo, Poland, May 9-13, 2016.
158. IX International Conference 'Chaotic Modeling and Simulation' (CHAOS 2016), London, UK, May 23-26, 2016.
159. The 12th International Conference Mechatronic Systems and Materials (MSM2016), Białystok, Poland. July 3-8, 2016.
160. International Conference in Nonlinear Problems in Aviation and Aerospace (ICNPAA World Congress), La Rochelle, France, July 5-8, 2016.
161. IV Scientific-Technics Conference 'Computer Technics in Engineering' (TKI2016), Warsaw, Poland, October 18-21, 2016.
162. International Conference of the Polish Society of Biomechanics 'Biomechanics 2016', Biała Podlaska, Poland, September 5-7, 2016.
163. 5th International Conference 'Nonlinear Dynamics 2016', Kharkov, Ukraine, September 27-30, 2016.
164. 9th Scientific Session on Applied Mechanics, Bydgoszcz, Poland, November 25, 2016.
165. The 3rd Conference on Advances in Robotics and Automation Technology (ARAT 2016), Shanghai, China, November 28-30, 2016.
166. EUROMECH Colloquium on Rolling Contact Mechanics for Multibody System Dynamics, Funchal, Madeira, Portugal, April 10-13, 2017.
167. 17th International Conference on Robotics, Control and Manufacturing Technology (ROCOM '17), April 26-28, 2017, Venice, Italy.
168. 19th International Conference on Automatic Control, Modelling and Simulation (ACMOS '17), May 10-12, 2017, Barcelona, Spain.
169. 25th French-Polisch Seminar of Mechanics, May 15-16, 2017, Bourges, France.
170. Acoustic and Vibration of Mechanical Structures (AVMS2017), May 25-26, 2017, Timisoara, Romania.
171. 10th International Conference on Chaotic Modeling, Simulation and Applications (CHAOS'2017), 30 May-2 June, 2017, Barcelona, Spain.
172. 13th Conference on Active Noise and Vibration Control Methods (MARDiH), Kazimierz Dolny, Poland, June 12-14, 2017.
173. International Conference on Advanced Technology Innovation (ICATI2017), June 25-28, 2017, Samui, Thailand.
174. International Conference on Structural Engineering Dynamics (ICEDyn-2017), Ericeira, Portugal, July 3-5, 2017.
175. 2nd International Conference on Intelligent Information Processing (ICIIP2017), July 17-18, 2017, Bangkok, Thailand.
176. 22nd International Conference on Computer Methods in Mechanics (CMM-2017), September 13 - 16, 2017, Lublin, Poland.
177. 13th International Conference on Vibration Problems (ICOVP-2017), Istanbul, Turkey, September 11-15, 2017.
178. 4th International Conference "Mechatronics: Ideas for Industrial Applications", September -13-15, 2017, Wisła-Jawornik, Poland.
179. 1st International Conference on Advances in Engineering and Technology (ICAET), 5-6 October, 2017, 2017, Arpagam University Coimbatore, Tamilnadu, India.
180. 11th International Conference 'Shell Structures: Theory and Applications', Gdańsk, Poland, October 11-13, 2017.
181. International Conference on Mechatronics, Automation and Intelligent Materials, November 13-14, 2017, Paris, France.
182. Symposium on Mechanics of Slender Structures (MOSS 2017), December 14-15, 2017, Mérida, Spain.

183. 21st International Scientific Conference on Advances in Civil Engineering - 'Construction the Formation of Living Environment', April 25-27, 2018, Moscow, Russia.
184. 5th International Conference on Complex Dynamical Systems in Life Sciences: Modeling and Analysis (5thICCDS'2018), May 10-12, 2018, University of Aveiro, Portugal.
185. 14th Internaational Conference Mechatronic Systems and Materials (MSM 2018), June 4-6, 2018, Zakopane, Poland.
186. 5th International Conference on Dynamics, Vibration and Control 'ICDVC-2018', July 28-30, 2018, Shijiazhuang, China.
187. 41st Solid Mechanics Conference (SOLMECH 2018), August 27-31, 2018, Warsaw, Poland.
188. Thirteenth International Conference on Computational Structures Technology (CST2018), September 4-6, 2018, Sitges, Barcelona, Spain.
189. International Conference of the Polish Society of Biomechanics 'Biomechanics 2018', September 5-7, 2018, Zielona Góra, Poland.
190. XXVI Conference International Scientific-Educational Theory of Machines and Mechatronic Systems, September 13-15, 2018, Wrocław, Poland.
191. First International Conference on Problems of Mechanics and Control (PMC2018), September 16-22, Moscow, Russia.
192. XV Scientific-Technics Conference 'Computer Technics in Engineering' (TKI2018), October 16-19, Mikołajki, Poland.
193. 10th Scientific Session on Applied Mechanics, November 23, Bydgoszcz, Poland.
194. First International Nonlinear Dynamics Confererence (NODYCON), February 17-20, Roma, Italy.
195. 14th Conference on Active Noise and Vibration Control Methods (MARDiH), May 26-29, Wieliczka, Poland.
196. 10th -International Symposium on Mechanics of Materials and Structures, June 2-6, Augustów, Poland.
197. International Conference on Nonlinear Solid Mechanics (ICoNSoM 2019), June 16-19, Roma, Italy.
198. Nonlinear Dynamics - Scientyfic Work of Prof. Dr Katica (Stefanovic) Hedric, September 4-6, Belgrade, Serbia.
199. II Aviation and Aerospace Congress, September 18-20, Cedzyna, Kielce Poland.
200. International Conference on Innovations Induced by Research in Technical Systems (IIRTS'2019), October 15-18, Koszalin, Poland.
201. VETOMAC XV, November 10-15, Curitiba, Brazil.
202. International Conference Modelling and Methods of Structural Analysis (MMSA), November 13-15, Moscow, Russia.
203. International Conference on Acoustics and Vibration of Mechanical Structures (AVMS 2019), May 30-31, 2019, Timisoara, Romania
204. International Conference on Structural Engineering Dynamics (ICEDyn 2019), June 24-26, 2019, Viana do Castelo. Portugal.
205. 12th International Conference on Circuits, Systems, Signal Processing, Communications and Computers (CSSCC 2020), April 26-28, 2020, Athens, Greece.
206. 3rd World Congress on Mechanical and Mechatronics Engineering (Mechanical-2020), May 11-12, 2020, Manchester, UK.
207. XXII International Conference "Mechanics in Medicine and Biology" (ICMMB-2020), June 8-10, 2020, Moscow, Russia.
208. 3rd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2020), June 9-12, 2020, Kharkiv, Ukraine.
209. 6-th International Confererence Nonlinear Dynamics, June 16-19, 2020, Kharkiv, Ukraine.
210. 4th International Conference on Information Processing and Control Engineering (ICIPCE 2020), June 27-29, 2020, Berkeley, USA.
211. 15th International Conference Mechatronic Systems and Materials (MSM 2020), July 1-3, Bialystok, Poland.
212. International Conference on Mathematical Analysis and Applications in Science and Engineering (ICMASC), July 20-24, 2020, Porto, Portugal.
213. XVIII International Scientific and Practical Conference Dedicated to the 90th ANNIVERSARY OF SHEI PSACE, November 26, 2020, Dnipro, Ukraine.
214. 2020 International Conference on Electrical Engineering and Control Technologies (IEEE-CEECT 2020), December 10-13, Melbourne, Australia.
215. Second International Nonlinear Dynamics Conference (NODYCON2021), February 16-19, 2021, Rome, Italy.

216. 1st International Conference Advaces in 3OM: Opto-Mechatronics, Opto-Mechanics and Optical Metrology, December 13-16, 2021, Timisoara, Romania.
217. 3rd International conference on Industrial Engineering and Artificial Intelligence (IEAI 2022), April 28-30, Chiang Mai, Thailand.
218. 10th International Conference on Wave Mechanics and Vibrations (WMVC), July 4-6, 2022, Lisbon, Portugal.
219. International Conference on Mathematical Analysis and Applications in Science and Engineering – ICMA2SC'22, June 27-July 1 2022, Porto, Portugal. (Honorary Committee)
220. XXII International Conference on Mechanics in Medicine and Biology, June 5-8, 2022, Moscow, Russia.
221. 24th International Conference on Computer Methods in Mechanics (CMM) and the 42nd Solid Mechanics Conference (SolMech), September 5-8, 2022, Świnoujście, Poland.

PLENARY LECTURES/SEMINARS

Plenary lectures

1. J. Awrejcewicz, 'Application of chaos concepts in mechanical and biomechanical engineering', The International Symposium on Simulation and Design of Applied Electromagnetic Systems, Hokkaido Koseinenkin Kaikan, Sapporo, Japan, January 26-30 (29), 1993 (1 hour plenary lecture)
2. J. Awrejcewicz, 'Periodicity, quasiperiodicity and chaos in deterministic systems'. The IIIrd Symposium 'Applications of Electromagnetism in Todays Technics and Technologies', Zaborów, Poland, September 6-8, 1993 (1 hour plenary lecture)
3. J. Awrejcewicz, 'Control of the vibro-impact systems using a delay loop'. 2 nd Conference on Impact Resistance in Constructions, Rynia, Poland, December 10, 1998 (1 hour lecture)
4. J. Awrejcewicz, 'Recent trends in asymptotical techniques with applications to mechanics'. XIXth Symposium 'Vibrations in Physical Systems', Poznań – Błażejewko, Poland, May 26, 2000 (1 hour lecture)
5. J. Awrejcewicz, 'Nonlinear mechanics today-perspectives and unsolved problems of dynamics', Third International Conference on Nonlinear Dynamics, Chaos, Control and their Applications to Engineering Sciences ICONNE 2000, Sao Paulo, Brazil, July 31-August 4, 2000 (1 hour lecture)
6. J. Awrejcewicz, 'Asymptotic approaches to analysis of strongly non-linear and non-smooth systems', The Fifth Yugoslav Symposium on Nonlinear Mechanics, 'Nonlinear Sciences at the Threshold of the Third Millenium', Nis, Yugoslavia, October 2-5, 2000 (1 hour lecture)
7. J. Awrejcewicz, 'A family of coexisting regular and irregular solutions in coupled three pendulums with impacts', 70 years birthday and 45 years of the scientific activity of Prof. Dr hab. Józef Giergiel and the 5th School on Modal Analysis, Cracow, Poland, December 12, 2000 (½ hour plenary lecture)
8. J. Awrejcewicz, G. Kudra 'Rigid triple pendulum with frictionless rigid unilateral constraints as a model for some technical objects', Fourth International Conference on Nonlinear Mechanics (ICNM-IV), Shanghai, China, August 13-16, 2002
9. J. Awrejcewicz, G. Kudra, P. Olejnik, 'Modeling and simulation of non-smooth mechanical systems', Proceedings of International Conference Physics and Control, PHYSCON 2003, Saint Petersburg, Russia, August 20-22, 2003 (1 hour lecture)
10. J. Awrejcewicz, G. Kudra, 'Stability, bifurcation and chaos of triple physical pendulum with constraints'
    The Ukrainian-Polish Colloquium on Mathematical Problems of Mechanics, MPM'04, Donetsk, Ukraine, October 17-20, 2004 (1 hour plenary lecture)
11. J. Awrejcewicz, 'Regular and chaotic dynamics and control of flexible axially-symmetric shallow shells' International symposium on Trends in Continuum Physics, TRECOP'04, Poznań, Poland, November 17-20, 2004 (1 hour plenary lecture)
12. J. Awrejcewicz, 'Monitoring and control of spatial-temporal chaos exhibited by plates and shells'
    (04.05.2005), Workshop on Nonlinear Phenomena: Modeling and Their Applications, Rio Claro, Brazil, May 2-4, 2005 (1 hour invited lecture)
13. J. Awrejcewicz, 'Chaotic engine: numerical and experimental investigations' (02.09.2005), 9th International Conference on Stability, Control and Rigid Bodies Dynamics, Donetsk, Ukraine, September 1-6, 2005 (1 hour plenary lecture)
14. J. Awrejcewicz, V. A. Krysko, N.N. Saveleva, 'Bifurcation and chaos of closed flexible cylindrical shells', 11th International Conference on Vibration Engineering, Timisoara, Romania, September 27-30, 2005 (45 minutes)
15. J. Awrejcewicz, 'Asymptotic approaches in the theory of shells: long history and new trends' 8th International Conference on 'Shell Structures: Theory and Applications', Gdańsk-Jurata, Poland, October 12-14, 2005 (45 minutes)
16. J. Awrejcewicz, Yu. Pyryev, 'On the periodic motion exhibited by a bush-shaft system with impact and frictional processes', XIV French-Polish Seminar of Mechanics, Warsaw, Poland, June 5-6, 2006 (plenary lecture)
17. J. Awrejcewicz, 'Dynamics of physical pendulum systems', 55th Anniversary of the Faculty of Mechanical Engineering and Robotics of the AGH University of Science and Technology, Kraków, Poland, September 14-15, 2007 (plenary lecture)

18. J. Awrejcewicz, 'Modeling and simulation of triple Physical pendulum', XXIII Symposium 'Vibrations in Physical Systems', Poznan - Bedlewo, Poland, May 28-31, 2008 (plenary lecture)
19. J. Awrejcewicz, G. Kudra, 'Numerical modeling and analysis of mechanical systems with impacts and dry friction', ,The International Summer School 'Advanced Problems in Mechanics', St. Petersburg, Russia, July 6-10, 2008 (40 min plenary lecture)
20. J. Awrejcewicz, 'Bifurcation, chaos and stability theories for high technology: modeling, simulation and experimental investigations', ,The Second IASTED AFRICA Conference on Modelling and Simulation (Africa MS 2008) Gaborone, Botswana, September 8-10, 2008 (3 hours Tutorial Session)
21. J. Awrejcewicz, 'Deterministic chaos machine: experimental vs. numerical investigations' CHAOS 2009, Chaotic Modeling and Simulation International Conference, Chania, Crete, Greece, June 1-5, 2009 (Keynote Talk)
22. J. Awrejcewicz, 'Chaotic dynamics of a triple pendulum: numercial vs. experimental investigations', 9th WSEAS International Conference on 'Non-Linear Analysis, Non-Linear Systems and Chaos' (NOLASC 2010), Kantaoui, Sousse, Tunisia, May 3-6, 2010 (Plenary lecture)
23. J. Awrejcewicz, G. Kudra, 'Contact forces modelling in the wobblestone dynamics', The 9th Brazylian Conference on Dynamics, Control and Their Applications (DINCON'2010), Universidade Estadual Paulista "JÚLIO DE MESQUITA FILHO", Rio Claro, Brazil, June 6-11, 2010 (Keynote Speaker)
24. J. Awrejcewicz, 'Some problems of nonlinear dynamics of lumped and continuous mechanical systems', X-th Workshop of the Mechatronic Design. Education in Mechatronics, Cracow, Poland, May 25, 2010, (40 min. invited lecture)
25. J. Awrejcewicz, 'Modeling and control of timing and spatial-timing chaos using ordinary and partial differential equations', 5th International Symposium on Trends in Continuum Physics (TRECOP'2010), The Palace Hotel, Sliema, Malta, July 16-20, 2010 (Key-note lecture)
26. J. Awrejcewicz, 'Modeling of vibration of lumped and continual mechanical systems by ordinary differential equations', 3rd WSEAS International Conference on ENGINEERING MECHANICS, STRUCTURES, ENGINEERING GEOLOGY (EMESEG'10), Kanoni, Corfu Holiday Palace, Greece, July 22-24, 2010 (Plenary lecture)
27. J. Awrejcewicz, 'Wobblestone dynamics revisited', The International Conference "Nonlinear Equations and Complex Analysis", Bannoe Lake ski resort/Ufa-Jakty-Kul (near Magnitogorsk), December 13-17, Russia, 2010 (keynote talk - "prigloshonyy professor")
28. J. Awrejcewicz, G. Kudra, 'Coupled model of dry friction and rolling resistance in the Celtic Stone modeling', International Conference on Structural Engineering Dynamics (ICEDyn 2011), Tavira, Portugal, June 20-22, 2011 (40 min. invited lecture)
29. J. Awrejcewicz, G. Kudra, 'Bifurcation and chaos of multi-body dynamical systems', The 10th International Conference on Vibration Problems (ICOVP 2011), Prague, Czech Republic, September 5-8, 2011 (Keynote lecture)
30. J. Awrejcewicz, 'Some chosen problems of chaotic dynamics of beams and plates', The XII National Scientific-Technical Conference "Computer Technics in Engineering", Słok, Poland, October 18-21, 2011, (1/2 hour plenary lecture)
31. J. Awrejcewicz, D. Grzelczyk, 'Modelling and numerical/experimental investigations of contact phenomena and wear processes in a mechanical friction clutch', The X International Conference Brake and Safety, Łódź-Rogów, Poland, November 3-4, 2011 (Plenary lecture)
32. J. Awrejcewicz, 'Regular and chaotic dynamics of structural members', The 1st International Conference on Uncertainty in Mechanical Engineering (ICUME 2011), Darmstadt, Germany, November 14-15, (Keynote lecture)
33. J. Awrejcewicz, 'Nonlinear dynamics of coupled triple pendulums with time-periodic mass distributions', EUROMECH 532"Colloquium on Time Periodic Systems", Frankfurt, Germany, August 27-30, 2012 (Keynote lecture)
34. J. Awrejcewicz, 'On the novel 3D friction and resistance model: theory, simulation and experimental results', International Conference on Structural Nonlinear Dynamics and Diagnosis, Marrakech, Marocco, April 30 – May 2, 2012 (Invited lecture)
35. J. Awrejcewicz, 'Regular vs. chaotic dynamics of beams and plates', 7th IASME/WSEAS International Conference on Continuum Mechanics(CM'12), Kos Island, Greece, July 14-17, 2012 (Plenary Speaker)
36. J. Awrejcewicz, 'Wavelet-based chaotic vibration analysis of beams and plates', 4th International Conference on Localization, Energy Transfer and Nonlinear Normal Modes in Mechanics and Physics (NNM2012), Haifa, Israel, July 1-5, 2012 (Keynote Speaker)

37. J. Awrejcewicz, 'On the wobblestone dynamics', World Congress: 9th International Conference on 'Mathematical Problems in Engineering, Aerospace and Sciences', Vienna, Austria, July 10-14, 2012 (Keynote Speaker)

38. J. Awrejcewicz, 'Analytical and numerical investigations of time-periodic mechanical systems', EUROMECH Colloguium 532 - Time periodic systems (TPS), Current trends in theory application, TU Darmstadt, Germany, August 25-30, 2012 (1 hour Keynote)

39. J. Awrejcewicz, G. Kudra, 'Rattleback top dynamics: modeling, simulation and experimental results', Dynamics Days South America 2012, Cartagena de Indias, Colombia, November 20-23, 2012 (1 hour Invited Talk)

40. J. Awrejcewicz, 'On the rigid body chaotic transitional dynamics', 9th International Conference on Dynamical Systems and Control (CONTROL'13), Lemesos, Cyprus, March 21-23, 2013 (Plenary lecture)

41. J. Awrejcewicz, 'Mathematical modeling of chaotic vibrations of strongly non-linear continuous structures' 6th Chaotic Modeling and Simulation International Conference (CHAOS 2013), Istanbul, Turkey, June 11-14, 2013 (Keynote speaker)

42. J. Awrejcewicz, 'Regular and chaotic dynamics of flexible plates', International Conference on Structural Engineering Dynamics (ICEDyn 2013), Sesimbra, Portugal, June 17-19, 2013 (Keynote lecture)

43. J. Awrejcewicz, 'Mathematical modeling and simulation of the transitional wobblestone dynamics', Mathematical Methods in Engineering International Conference (MME2013), Porto, Portugal, July 22-26, 2013 (Keynote speaker).

44. J. Awrejcewicz, A.V. Krysko, 'Wavelet analysis of nonlinear mechanics of shells', 1st International Conference 'Shell and Membrane Theories in Mechanics and Biology: From Macro to Nanoscales Structures' (SMT in TB), Minsk, Belarus, September 16-20, 2013 (Keynote speaker)

45. J. Awrejcewicz, 'Spatio-temporal chaos exhibited by beams, plates and shells', Multi-Conference on System and Structures (SysStruc'2013), Resita, Romania, September 26-28, 2013 (Keynote lecture)

46. J. Awrejcewicz, 'Spatio-temporal non-linear dynamics and chaos in plates and shells', International Conference on Recent Advances in Mathematical Sciences and Applications (RAMSA'2013), India, December 19-22, 2013 (Keynote lecture)

47. J. Awrejcewicz, 'Chaos and turbulent dynamics of continuous structural members', ICNPAA Congress: 10 International Conference on Mathematical Problems in Engineering, Aerospace and Sciences, Narvik University, Norway, July, 15-18, 2014 (Keynote speaker).

48. J. Awrejcewicz, 'Chaotic and simulations of deterministic chaos in systems with finite number of degrees of freedom', Scientific Session dedicated to the memory of Professor Jan Kruszewski-Majewski, Gdansk, Poland, April 24-25, 2014 (Keynote speaker).

49. J. Awrejcewicz, 'Periodic and chaotic dynamics of continuous mechanical systems', 53 Symposium on Modeling in Mechanics, February 22-26, 2014 Ustroń, Poland (Plenary speaker).

50. J. Awrejcewicz, B. Zagrodny, 'Selected problems of technical biomechanics', 11 Scientific Conference on 'The Young Biomechanics Picnic', May 9-11, 2014 Ustroń, Poland (Plenary speaker).

51. J. Awrejcewicz, 'Chaotic and turbulent dynamics of continuous structural members', World Congress: 10th International Conference on Mathematical Problems in Engineering, Aerospece and Sciences, July 15-18, 2014, Narvik, Norway. (Keynote Talk)

52. J. Awrejcewicz, 'Numerical simulations and visualizations of non-linear dynamics of continuous mechanical systems', 7th International Conference on Computer Science and Information Technology (ICCSIT 2014), December 22-24, 2014, Barcelona, Spain (Keynote Speaker)

53. J. Awrejcewicz, 'Noisy chaotic dynamics of structural members implies chaos', Universality of Nonclassical Approaches in Mechatronics, WELCOME Project Meeting, April 27-28, 2015, Cracow, Poland (Keynote Speaker, 45 minutes)

54. J. Awrejcewicz, 'Chaotic and noisy chaotic dynamics of structural members', XX Congreso Colombiano de Matematicas, Universidad Nacional de Colombia, July 21-24, 2015, Manizales, Colombia (1 hour semi-plenary lecture)

55. J. Awrejcewicz, 'Chaotic and noisy-chaotic dynamics of slender structures', Symposium on 'Mechanics of Slender Structures' (MoSS 2015), July 21-22, 2015, Northampton, UK (Keynote lecture)

56. J. Awrejcewicz, 'Regular versus chaotic dynamics of flexible beams under white noise', 4th International Conference on Power Science and Engineering (ICPSE 2015), December 15-16, 2015, Amsterdam, Netherlands (Keynote speaker, 50 minutes)

57. J. Awrejcewicz, 'Non-linear dynamics of interacting beams and plates', International Conference on Mechanics Engineering and Control Automation (ICMECA2016), January 9-10, 2016, Wuhan, China (Keynote speaker, 45 minutes)
58. J. Awrejcewicz, 'Non-linear dynamics of interacting structural members', 4th International Conference on 'Mathematical, Computational and Statistical Sciences (MCSS'16), February 13-15, 2016, Barcelona, Spain (Plenary speaker)
59. J. Awrejcewicz, 'Non-linear vibrations of structural members', 27th Symposium on Vibrations in Physical Systems, May 9-11, 2016, Poznań-Będlewo, Poland (Plenary speaker)
60. J. Awrejcewicz, 'Bifurcations and chaos exhibited by the celtic stone', 6th International Advances in Applied Physics and Materials Science Congress & Exhibition, June 1-3, 2016, Istanbul, Turkey (Plenary speaker)
61. J. Awrejcewicz, G. Kudra, 'Bifurcation and chaos exhibited by a rattleback lying on vibrating surface modified by magnetic force', Sixth International Conference 'Geometry, Dynamics, Integrable Systems - GDIS 2016', June 2-5, 2016, Izhevsk, Russia (Plenary speaker)
62. J. Awrejcewicz, A.V. Krysko, 'Chaotic dynamics of structural members under regular periodic and white noise excitations', Sixth Conference on Numerical Analysis and Applications (NAA'16), June 15-22, 2016, Lozenetz, Bulgaria (Keynote speaker)
63. J. Awrejcewicz, A.V. Krysko, 'Interplay of chaos and noise in the interacting slender structural members', International Conference on Advanced Technology Innovation (ICATI 2016), June 30- July 3, 2016, Bali, Indonesia (Keynote speaker)
64. J. Awrejcewicz, A.V. Krysko, 'Novel non-linear phenomena exhibited by interacting structural members', World Congress: 11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2016), July 5-8, 2016, La Rochelle, France (Keynote speaker)
65. J. Awrejcewicz, A.V. Krysko, 'Wavelet-based analysis of regular and chaotic dynamics of interacting structural members under white noise', Dynamics Days: Latin America and the Carribean, October 24 -Noveber 1, 2016, Puebla, Mexico (Plenary speaker)
66. J. Awrejcewicz, G. Kudra, 'Modelling and bifurcational dynamics exhibited by a rattleback imposed on vibrating platform', 5th International Conference on Mechatronics and Control Engineering (ICMCE 2016), December 14-17, 2016, Venice, Italy (Keynote speaker)
67. J. Awrejcewicz**, '**Some problems of non-linear dynamics of a rigid body moving on a plane', IV International School-Conference for Young Scientists "Nonlinear Dynamics of Machines" (SCHOOL-NDM 2017), April 18-21, 2017, Moscow, Russia (Keynote speaker)
68. J. Awrejcewicz, G. Kudra**, '**Opened problems of rigid body dynamics lying on a movable/non-movable plane', 4th International Conference on Mechatronics - Ideas for Industrial Applicattions, September 13-15, 2017, Gliwice, Wisła-Jawornik, Poland (Plenary speaker)
69. J. Awrejcewicz, 'Regular and chaotic dynamics of a rigid body on a plane with friction', Scientific Session of the 70th Anniversary of the Birth of Professor Edmund Wittbrodt, November 17, 2017, Gdańsk, Poland (Invited Talk)
70. J. Awrejcewicz, O. Jarzyna, 'Lower limb exoskeleton as a device for gait ability recover', International Conference of the Polish Society of Biomechanics 'Biomechanics 2018', September 7, 2018, Zielona Góra, Poland. (Keynote speaker)
71. J. Awrejcewicz, 'Periodic vs. chaotic dynamics of structural members with an account of Casimir forces and temperature field', 7th International Conference of Mechatronics and Control Engineering (ICMCE 2018) and 5th International Conference on Mechanical Properties of Materials (ICMPM 2018), November 28, 2018, Amsterdam, Netherlands. (Keynote speaker)
72. J. Awrejcewicz, 'Regular and chaotic dynamics of micro/nano structural members', International Conference on Emerging Innovations in Statistics and Operation Research (EISOR-2018), December 30, 2018, Rohtak, Hariana, India. (Keynote speaker)
73. J. Awrejcewicz, 'Periodic vs. chaotic dynamics of structural members with an account of Casimir forces and temperature field', 8th International Conference on Mechatronics and Control Engineering (ICMCE 2019), June 23-25, 2019, Paris, France. (Keynote speaker)
74. J. Awrejcewicz, 'Periodic vs. chaotic dynamics of structural members with an account of Casimir forces and temperature field', 6 International Conference on Mechanical Properties of Materials (ICMPM 2019), June 23-25, 2019, Paris, France. (Keynote speaker)
75. J. Awrejcewicz, 'Nonlinear Dynamics of Coupled Pendula under Electro-Magnetic Excitation', 3rd International Conference on Information Processing and Control Engineering (ICIPCE2019), August 4-7, 2019, Moscow, Russia. (Keynote speaker)
76. J. Awrejcewicz, 'Nonlinear Dynamics of Coupled Pendula under Electro-Magnetic Excitation', 2nd International Conference on Robot Systems and Applications (ICRSA 2019), August 4-7, 2019, Moscow, Russia. (Keynote speaker)

77. J. Awrejcewicz, 'Regular and chaotic dynamics of coupled pendulums in electric-magnetic field', Symposium 'Nonlinear Dynamics - Scientific work of Prof. Dr Katica (Stefanovic) Hedrih', September 4-6, 2019, Belgrade, Serbia. (Plenary speaker)
78. J. Awrejcewicz, 'Nonlinear vibrations of mechanical oscillators under magnetic and electric fields', XVI-th International Conference Acoustics & Vibration of Mechanical Structures, May 28-29, 2021, Timisoara, Romania (Plenary speaker (on-line))
79. J. Awrejcewicz, 'Dynamics of mechanical oscillators under magnetic field', 2nd Nonlinear Dynamics and Complexity (online conference), October 6-8, 2021, Portugal (Plenary speaker)

Lectures and seminars presented at foreign univerisites (45-90 min)

Listed seminars were conducted by the Candidate in Eglish, German and Russian, mostly at prestigious universities.

1. *Nonlinear phenomena in mechanical dynamical systems, Hannover University*, Hannover, Germany, 13.06.1988. (in German)
2. *Numerical computations of quasi-periodic orbits, Technical University*, Braunschweig, Germany, 16.06.1989.(in German)
3. *Clusters of periodic oscillations and chaos in a nonlinear oscillator with delay*, Technical University, Munich, Germany, 19.06.1989. (in German)
4. *Dynamics of human vocal cords*, Technical University, Stuttgart, Germany, 20.06.1989. (in German)
5. *Bifurcation and chaos in physical systems*, Technical University, Braunschweig, Germany, 26.09.1989. (in German)
6. *Chaotic behaviour in physical dynamical systems*, Technical University, Berlin, Germany, 07.11.1989. (in German)
7. *Future of chaos in mechanics*, Technical University, Berlin, Germany, 12.12.1989. (in German)
8. *Some examples of chaotic dynamics in coupled oscillators*, Kyoto University, Kyoto, Japan, 17.01.1990.
9. *Periodic and chaotic orbits in the systems with two degrees-of-freedom*, Hokkaido University, Sapporo, Japan, 19.09.1990.
10. *Future of chaos in mechanics, Kyushu University*, Fukouka, Japonia, 15.10.1990.
11. *Application of chaos concepts in mechanical and biomechanical engineering*, Tokyo University, Tokyo, Japan, 20.11.1990.
12. *Analytical investigation of strongly nonlinear dynamical systems*, Tokyo University, Tokyo, Japan 21.12.1990.
13. *Dynamics of two coupled externally driven oscillators*, Monash University, Melbourne, Australia, 21.03.1991.
14. *Influence of friction on the chaotic dynamics in coupled oscillators*, University of Melbourne, Australia, 30.03.1991.
15. *Perspectives of nonlinear dynamical systems*, Tohoku University, Sendai, Japan 17.09.1991.
16. *Nonlinear dynamics, bifurcations and chaos exhibited by coupled oscillators*, Kyoto University, Kyoto, Japan, 17.10.1991.
17. *Chaos in mechanical systems*, Saitama University, Urawa, Japan, 30.05.1992.
18. *Bifurcation and chaos in coupled oscillators*, Peking University, Bejing, China, 05.06.1992.
19. *Strange nonlinear behaviour governed by averaged equations*, Tohoku University, Sendai, Japonia, 26.06.1992.
20. *Global numerical methods of analysis of nonlinear dynamical systems*, Research Center for Advanced Science and Technology, Tokyo University, Tokyo, Japan, 11.07.1992.
21. *Chaotic dynamics exhibited by two-dimensional maps*, Dong-A University, Pusan, Korea, 12.08.1992.
22. *Bifurcation and chaos in physical systems*, University of the Philippines, Manila, Philippines, 18.08.1992.

23. *Chaos in physical systems*, National University of Singapore, Singapore, 02.10.1992.
24. *Order and chaos exhibited by differntial equations and two-dimensional maps*, Technical University, Braunschweig, Germany, 30.06.1993.
25. *Periodic, quasiperiodic and chaotic orbits and their role in fluid mechanics*, Fluids seminar, University of Toronto, Toronto, Canada, 24.11.1993.
26. *Mechanics today - perspectives and problems*, École Nationale des Travaux Publics de l'État, France, 14.11.1995.
27. *Vibro-impact periodic processes - analytical and numerical investigations*, Université Claude Bernard Lyon, France, 12.12.1995.
28. *Chaos after Hopf bifurcation of periodic and quasi-periodic orbits*, Waikato University, Hamilton, New Zeland, 17.12.1996.
29. *Period doubling bifurcation and chaos exhibited by lumped and continuous systems*, École Nationale des Travaux Publics de l'État, France 14.03.1997.
30. *Periodicity, quasi-periodicity and chaos in deterministic systems*, Université Claude Bernard, Lyon, France, 16.03.1999.
31. *Stability improvement of the periodic vibro-impact processes*, University of Illinois, Urbana-Champaign, USA, 10.12.1999.
32. *Periodic and chaotic oscillations exhibited by non-smooth dynamical systems*, Vienna University of Technology, Vienna, Austria, 13.01.2000.
33. *Discrete and continuous systems with time delay*, Universidad Central de Venezuela, Caracas, Venezuela, 26.07.2000.
34. *Bifurcation and chaos in engineering and bioengineering*, Universidad Central de Venezuela, Caracas, Venezuela, 28.07.2000.
35. *Nonlinear mechanics today*, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brasil, 04.08.2000.
36. *Mathematical pendulum modeling*, Central European University, Budapest, Hungar, 09.09.2003.
37. *Mathematical modeling and simulation of two degrees-of-freedom mechanical systems*, Central European University, Budapest, Hungary, 10.09.2003.
38. *Bifurcations and chaos of physical systems with constraints*, Instituto de Fisica, Universidade de Sao Paulo, Brasil, 05.05.2005.
39. *Teaching and research in Poland* (in Russian), The Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, 06.02.2006.
40. *Triple physical pendulum and its impact on nonlinear science* (in Russian), The Dnepropetrovsk National University, Dnepropetrovsk, Ukraine, 07.02.2006.
41. *Bifurcation and chaos in lumped mechanical systems with impact*, The University of Mansuora, Mansuora, Egypt, 26.06.2006.
42. *Spatial-temporal chaos exhibited by shells dynamics*, The University of Mansuora, Mansuora, Egypt, 27.06.2006.
43. *Modeling and analysis of contact pairs with thermal, stick-slip and wear processes*, The University of Menoufyia, Menoufyia, Egypt, 03.07.2006.
44. *Monitoring and control of spatial-temporal chaos*, The University of Menoufyia, Egypt, 04.07.2006.
45. *Bifurcation and chaos of an actual triple pendulum - numerical and experimental investigations*, TECHNION - Israel Institute of Technology, Haifa, Israel, 10.03.2008.
46. *Nonlinear dynamics of a pendulum*, Universidad Nacional de Colombia Sede Manizales, Manizales, Colombia, 01.08.2008.
47. *Modeling and analysis of mechanical systems with impacts and dry friction*, Universidad Nacional de Colombia Sede Manizales, Manizales, Colombia, 04.08.2008.
48. *(i) A bush-shaft dynamical system with impacts and friction, (ii) How to achieve a scientific career?,* Universidad Nacional de Colombia Sede Manizales, Manizales, Colombia, 05.08.2008.
49. *(i) Indywidualne seminaria z wymienionymi niżej doktorantami:*
Carlos Escobar, Alex Nico, Carlos Ildef, Jaime, Ivan, Carlos Ildefonso, Alejandro Rincon, Simeon, (ii) lokalny wywiad dla National University of Manizales TV and Newspaper, Universidad Nacional de Colombia Sede Manizales, Manizales, Colombia, 31.07, 1.08, 5.08, 6.08.2008.

50. *Smooth and nonsmooth nonlinear dynamical systems*, The Bashkortostan Pedagogical State University, Ufa, Russia, 29.06.2010.
51. *Muscle activity modeling*, The Bashkortostan Pedagogical State University, Ufa, Russia, 11.12.2010.
52. *Triple pendulum dynamics: modelling, simulation, identification and experimental results*, The Alexander von Humboldt Award Seminar, Geschäftsstelle LOEWE-Zentrum AdRIA, Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF, Darmstadt, Germany, 12.04.2011.
53. *Chaotic dynamics of a triple pendulum*, The Alexander von Humboldt Award Seminar, University of Stuttgart, Institute of Applied and Experimental Mechanics, Stuttgart, Germany, 29.04.2011.
54. *Periodic and chaotic dynamics of coupled pendulums*, The Alexander von Humboldt Award Seminar, RWTH Aachen, Faculty of General Mechanics, Akwizgran (Aachen), Germany, 2.05. 2011.
55. *Triple pendulum dynamics: numerical simulation and experimental results*, The Alexander von Humboldt Award Seminar, Technical University in Darmstadt, Department of Mechanics, Darmstadt, Germany, 11.05.2011.
56. *Smooth and non-smooth dynamics of coupled pendulums*, The Alexander von Humboldt Award Seminar, Technical University in Ilmenau, Department of Machine Construction, Ilmenau, Germany, 17.05.2011.
57. *Periodic and chaotic dynamics of coupled pendulums*, The Alexander von Humboldt Award Seminar, Technical University of Berlin, Department V, Faculty of Mechanics, Berlin, Germany, 18.05.2011.
58. *Smooth and non-smooth triple pendulum dynamics*, The Alexander von Humboldt Award Seminar, Hamburg University of Technology, Faculty of Mechanics and Oceanic Engineering, Hamburg, Germany, 20.05.2011.
59. *On the triple pendulum dynamics*, The Alexander von Humboldt Award Seminar, Leibniz University of Hanover, Faculty of Dynamics and Vibrations, Hannover, Germany, 24.05.2011.
60. *Nonlinear dynamics of coupled pendulums*, The Alexander von Humboldt Award Seminar, Institute of Technology, Karlsruhe, Germany, 30.05.2011.
61. *Multibody periodic and chaotic dynamics of plane triple pendulum and spatial double pendulum with Cardan joins: Numerical vs. experimental investigations*, International Centre of Mechanical Science, Udine, Italy, 05.09.2016.
62. *Analytical and numerical investigations of time periodic mechanical systems*, International Centre of Mechanical Science, Udine, Italy, 06.09.2016.
63. *Reduction of a weakly nonlinear mechanical systems with two degrees-of-freedom: Analytical approach and its validation,* International Centre of Mechanical Science, Udine, Italy, 07.09.2016.
64. *Resonant and non-resonant oscillations of parametric mechanical systems using the multiple scale techniques,* International Centre of Mechanical Science, Udine, Italy, 07.09.2016.
65. *Parametric resonance*, El Departamento de Control Automatico, Cinvestav, Mexico, 28.10.2016.
66. *Stationary and transient resonant response of a spring pendulum*, El Departamento de Control Automatico, Cinvestav, Mexico, 28.10.2016.
67. *Bifurcation dynamics of coupled/double pendula in magnetic-electric fields*, National Technical University "Kharkiv Polytechnic Institute", Kharkiv, Ukraine, 29.03.2019.
68. *On the rigid body dynamics with frictional 3D contacts*, SHEI “Prydniprovska State Academy of Civil Engineering and Architecture”, Dnipro, Ukraine, 11.07.2019.
69. *On the dynamics of coupled pendulums in magnetic-electric fields*, SHEI “Prydniprovska State Academy of Civil Engineering and Architecture”, Dnipro, Ukraine, 11.07.2019.

Lectures and seminars in Poland (45-90 minutes)

1. *Nonlinear dynamics, bifurcations and chaos- achievements and perspecitves,* Polska Akademia Nauk, Komitet Mechaniki, IPPT PAN, Warszawa, 23.11.1995.
2. *The role of nonlinear dynamics for technical purposes- chosen notion*s, Ordinary Session of Łódź Branch of the Polish Academy of Sciences, 09.12.2004.
3. *Chaotic dyanmics of simple physical systems,* Spotkanie Łódzkiego Towarzystwa Naukowego, Łódź, 23.05.2005.
4. *On the problems of numerical and experimental investigation of the biomechanical systems* (in German), Regional Scientific Conference of the Societas Humboldtiana Polonorum Łódź under "Humboldt Kolleg" program of the Alexander von Humboldt Foundation, Słok, 27.05.2005.
5. *Bifurcation and chaos in systems with impacts,* Universytet Technologiczno-Przyrodniczy, Bydgoszcz, 22.02.2006.
6. *Modelling and analysis of strongly nonlinear engineering objects with impacts,* Politechnika Warszawska, Polskie Towarzystwo Mechaniki Teoretycznej i Stosowanej, Warszawa, 19.06.2006.
7. *Regular and chaotic dynamics in technical system with friction and impacts*, Politechnika Warszawska, 14.12.2006.
8. *Cycle of 3 didactical lectures (5hours each) as a part of EU program for sutdents from the Czestochowa University of Technology: (i) Introduction to traditional mechanics (statics and mass mechanics); (ii) Kinematics of a material particle and a rigid body; (iii) Introduction to linear and nonlinear dynamics of material systems*, Politechnika Częstochowska, Częstochowa, 20.03, 15.05, 05.06.2009.
9. *Stability and chaotic dynamics of connected pendulums' systems, (ii) Professor's role,* Akademia Techniczno-Humanistyczna w Bielsku-Białej, Bielsko-Biała, 20.04.2009.
10. *(i) Is being a professor worth it? (ii) Nonlinear dynamics of connected pendulums – theory, simulations and experimental research, (iii) Dynamics of a celtic stone,* Instytut Mechaniki, Politechnika Poznańska, Poznań, 06.11.2009.
11. *Deterministic chaos: theory, simulations and experiment,* Politechnika Gdańska, Gdańsk, 16.06.2010.
12. *(i) Bifurcation and chaos of discrete and continuous systems, (ii) Does a professor work more than a student?* (in Russian), Politechnika Szczecińska, Szczecin, 17.06.2010.
13. *About the dynamics of a celtic stone and the need of Polish professors to be active,* Polska Akademia Nauk, Oddział w Lublinie, Pałac Czartoryskich, Lublin, 23.05.2012.
14. *My way to the title*, Academy of Arts and Technology, Bielsko-Biała, 27.05.2014.
15. *Regular and chaotic dynamics of beams*, Częstochowa University of Technology, Częstochowa, 01.12.2014.
16. Chaotic dynamics of nanoshells, Kielce University of Technology, Kielce, 20.03.2019.

Invited lectures

1. 'Order and Chaos Exhibited by Differential Equations and Two-Dimensional Maps', The Second World Congress of Nonlinear Analysts (WCNA-96), Athens, Greece, July 10-17, 1996
2. 'Combined Analytic-Numerical Investigation of Discrete-Physical Systems and Two-Dimensional Maps', Fifth International Colloquium on Numerical Analysis, Plovdiv, Bulgaria, August 13-17, 1996
3. 'Asymptotic Approaches for Strongly Nonlinear Dynamical Systems', The Third World Congress of Nonlinear Analysts (WCNA-2000), Catania, Italy, July 19-26, 2000
4. 'Stability Analysis of a Mulitbody System with Rigid Unilateral Constraint and Its Application' The IVth World Congress of Nonlinear Analysts, Orlando, Florida, USA, June 30-July 7, 2004
5. 'Evolution of Chaotic Regions in control Parameters Planes Depending on Hysteretic Dissipation' The IVth World Congress of Nonlinear Analysts, Orlando, Florida, USA, June 30-July 7, 2004
6. 7th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA 2008), Genoa, Italy, June 25-27, 2008

5-hour lectures as a part of an EU project

1. Mechanics of lumped systems; Czestochowa University of Technology, Faculty of Mechanical Engineering and Computer Science, 20.03.2009
2. Modeling, differential equations and dynamics of mechanical systems; Czestochowa University of Technology, Faculty of Mechanical Engineering and Computer Science, 22.11.2013

HONOURS AND AWARDS

National scientific awards

- *Individual Award of the Minister of National Education* for a series of publications devoted to nonlinear vibrations– 1996.
- *The prize of the Minister of National Education and Sport for monograph "Nonclassical Thermoelastic Problems in Nonlinear Dynamics of Shells"* – 2004.
- *Prize of the Minister of Science and Higher Education of Poland for monograph "Nonlinear Dynamics of a Wheeled Vehicle"* – 2006.
- The *Golden Lamp* Award (PGNiG) in the field o technical studies – 2006.
- *Individual (2nd degree) Award of the Minister of Science and Higher Education* for scientific achievements – 2008.
- Winner of the "Master" Program in technical stuidies in the subject of: *„Mathematical modeling, simulation and control of non-linear dynamics (bio dynamics) of experimental processes and systems of mechatronic systems"*, FNP – 2009.
- *The prize of the Faculty of Mechanical Engineering of the Lodz University of Technology* for scientific achievemtns in the research:"*Nonlinear Dynamics of Continuous Mechanical Systems and Modeling in Biomechanics*" – 2009.
- *Award of the Rector of the Lodz University of Technology* for accomplishments in organisig activity, Łódź – 2010.
- *Title of the Doctor Honoris Causa of the Częstochowa University of Technology, Częstochowa* – 2014.
- *Title of Doctor Honoris Causa at the University of Technology and Humanities in Bielsko-Biała, Bielsko-Biała* – 2014.
- *Individual Award of the Minister of Science and Higher Education for didactical achievements* – 2015.
- *Ambassador of Innovative Ideas and Pedagogical Practices,* Lodz Centre of Excellence for Teacher Training and Practical Training (Certificate 1/2017) – 2017.
- *Team Award of the Minister of Science and Higher Education for Poland for Didactic Achievements* - Warsaw – 2018.
- *Title of the Doctor Honoris Causa of the Kielce University of Technology, Kielce,* 2018.
- *Title of the Doctor Honoris Causa of the Gdansk University of Technology, Gdańsk,* 2018.
- *Rector's award for the best cited author from the Lodz University of Technology in 2021.*
- *Award of the minister responsible for higher education and science of the Ministry of Education and Science for the lifetime of scientific achievements in 2022.*

Foreign scientific awards

- *The Alexander von Humboldt Award* for scientific and didactical achievements, 2010/2011 i 2016.
- *Fulbright Award* for seniors, College of Electrical Engineering and Computer Science and Mechanical Engineering, University of California, Berkeley, 2001 (12 months of scientific research and lectures for students).
- *Kosciuszko Foundation Award* (New York), Department of Mechanics and Industrial Engineering, University of Illions, Urbana USA (1999/2000), 3 months of scientific research.
- *Japan Society for the Promotion of Science (JSPS)*, University of Tokyo, Japan (1990-1991), 1 year of scientific research.
- *Center for Science and Technology Research*, University of Tokyo, *Honorary Profesor of Mitsubishi*, Japan (1992), 9 months of scientific research.

- *The Alexander von Humboldt Foundation*, University of Brunswick, Germany, (1987-1990, 1993), 2 years of scientific research
- *Grant from the Ministry of Education*, République Francaise, de la recherche et de la technologie, E.N.T.P.E., Vaulx en Velin (1999), 1 month of research
- *Grant Région Rhône-Alpes*, TEMPRA PECO, ENTPE (2001/2002), Franca, 3 motnhs of scientific research
- *Central European University Scholarship*, Department of Mathematics and Its Applications (2003), Budapest, Hungary, 1 month of scientific research
- *NATO Grant Award* (Service des Bourses de Recherche Scientifique et Technique du Traite de l'Atlantique Nord (OTAN)); ENTPE, Vaulx en Velin (Lyon), Francja (2005) 3 months of scientific research
- *Honorary Doctor Award, National Technical University "Kharkiv Polytechnic Institute*", Kharkiv, Ukraine, 2019.
- *Doctor Honoris Causa Award*, *Prydniprowska State Akademy of Civil Engineering and Architekture*, Dnipro, Ukraine, 2021.
- *Doctor Honoris Causa Award, Politehnica University Timisoara*, Timisoara, Romania, 2021.

Other honours and awards

- *Gold Cross of Merit* (1996)
- *The medal of the Ministry of Education* (1998)
- The Order of Polonia Restituta- Knight's Cross (2001)
- The Technical University of Lodz Rector's Award for Organizational Activity (2004)
- *The Author of Year* – Blodz Regional Digital Library (2006)
- *The Order of Polonia Restituta- Officer's Cross* (2012)

Publications from press and the Internet (examples)

- An award from “Alexander von Humboldt Foundation”
  - ‘O pokorze dobrego klerka’, ['As humble as a good clerk'] PAR 7-8, 2011
  - „Nagroda Fundacji Humboldta dla prof. Jana Awrejcewicza‘ [An award from “Alexander von Humboldt Foundation” for prof. Jan Awrejcewicz’,] PAR 6, 2011
  - 'Nagroda niemieckich naukowców dla łódzkiego profesora [‘An award of German scientists for the professor from Lodz''], Gazeta Wyborcza, 28.02.2011
  - ‘Docenili profesora z Łodzi’ [Professor from Lodz has been appreciated], Dziennik Łódzki, 22.02.2011

- Triple pendulum
  - http://edukacjawpolsce.pl/modules.php?op=modload&name=News&file=article&sid=174&mode=thread&order=0&thold=0
  - http://www.abm.p.lodz.pl/pdf/2006_94.pdf

- The“MASTER” award
  - http://www.fnp.org.pl/programy/aktualne_programy_fnp/stypendia_i_subsydia/program_mistrz/laureaci/9
  - http://humboldt.org.pl/content/view/141/1/
  - http://www.naukawpolsce.pl/palio/html.run?_Instance=cms_naukapl.pap.pl&_PageID=1&s=szablon.depesza&dz=&dep=368419&data=&lang=PL&_CheckSum=-101576389
  - http://www.abm.p.lodz.pl/pdf/2010_1_mistrz.pdf

- The „GOLDEN LAMP' award
  - http://abm.p.lodz.pl/awrejcewicz/lampa.htm

- http://www.pgnig.pl/pgnig/fundacja/1083/15545
- http://www.nauka.gov.pl/nauka/sukcesy-uczonych/nagrody/nagrody/artykul/naukowe-zlote-lampy-po-raz-pierwszy/
- http://lodz.dlastudenta.pl/studia/artykul/Prof_Jan_Awrejcewicz_wyrozniony,46285.html

MEMBERSHIP IN SCIENTIFIC COMMITTEES AND ASSOCIATIONS (EXAMPLES)

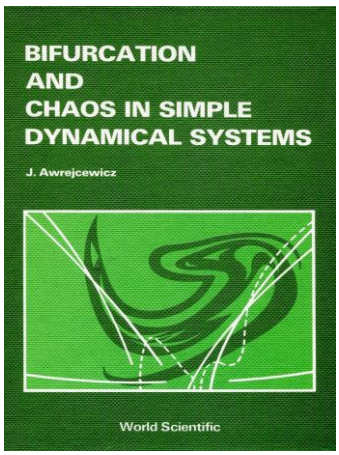
- Member of the European Academy of Sciences and Arts (2021-)
- Real member of PAN, 2021 (***elected***)
- Member of the International Advisory Board of the Institute of Thermomechanics of the Czech Academy of Sciences (2019-2023)
- Member of the Council of Scientific Excellence (2019-)
- Member of the Central Commission of Degrees and Titles(MNiSW), 2013-2016, 2017-2020 (***elected***)
- Member of Experts Team Section Theory of Machines and Mechanism of Polish Academy of Sciences, 2016-2020.
- Member of the Executive Committee of the Academy of Engineering in Poland (2016-2019)
- Correspondent member of PAN, 2016 (***elected***)
- Member of the Polish Committee of Theory of Machines and Mechanisms form the Committee of Machine Building, PAN, 2012-2016
- Chair of the International Federation of Theory of Machines and Mechanism (IFToMM) of the Technical Committe on Nonlinear Oscillations for term, 2006-2009 (***elected***)
- Member of Lodz Science Society (ŁAN), 2005 (***elected***)
- Full member of the Academy of Engineering in Poland, 2004 (***elected***)
- Consulting Editor of the Contemporary Who's Who, American Biographical Institute, 2004 (***elected***)
- Member of the Section of Fundamentals of Construction in the Comittee of Machine Building PAN, 1999-2002, 2003-2006
- Member of PKTMiM in the Committee of Machine Building PAN, 1999-2002, 2003-2006
- Member of the Committee of Mechanics, PAN, 1993-
- Member of T07A i T11F section from State Committee of Scientific Research KBN (1995-2000)
- Chairman for programs : (i) TEMPRA 1995/1996; (ii) SOCRATES/ERASMUS, 1999-; (iii) POLONIUM, 1999-2001 (ENTPE, France)
- American Mathematical Society, 1993
- European Mechanics Society, 1994
- Canadian Mathematical Society, 1994
- AIAA, 1994
- SIAM, 1994
- Polish Society of Applied Mechanics, 1981
- GAMM, 1995
- Society of Applied Electromagnetism, 1993
- Polish Society of Engineers Mechanics, 1981
- Humboldtiana Polonorum Societas, 1987
- Technical Committee for Nonlinear Oscillation of the IFToMM, 1995
- Committee of Theory of Machines and Mechanisms form the Committee of Machine Building, PAN, 1995,
- Polish Society of Biomechanics, 1999
- American Association for the Advancement of Science, 2001

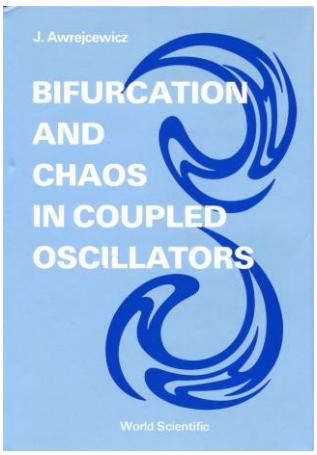
PUBLICATIONS OF CANDIDATE'S BIOGRAPHY (EXAMPLES)

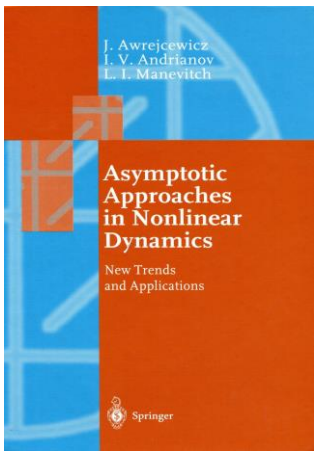
1. International Book of Honour, Fourth World Edition (American Biographical Institute)
2. 5000 Personalities of the World, Fifth Edition (American Biographical Institute)
3. Dictionary of International Biography, 24th Edition (International Biographical Centre)
4. 2001 Certificate of Membership (American Association for the Advancement of Science)
5. 500 Leaders of Science, Special Commemorative Edition (American Biographical Institute)
6. Golden Book of Technical Sciences (Polish Biographical Institute), in Polish
7. Eminent People of Today, Premier Edition (International Biographical Centre)
8. 2000 Outstanding Intellectuals of the 21st Century, Second Edition (International Biographical Centre)
9. Who's Who in the World, 20th Edition (Marquis Who's Who)
10. Encyclopedian Biographic Dictionary - Who is Who in Poland, Premier Edition (Hübner blaues Who is Who), in Polish
11. Dictionary of International Biography – Thirtieth Anniversary Edition (International Biographical Centre)
12. International Directory of Distinguished Leadership – Eleventh Edition (American Biographical Institute)
13. 21st Century Award for Achievement (International Biographical Centre)
14. The Contemporary Who's Who 2003/2004 Edition (American Biographical Institute)
15. Who's Who in the World, 21st Edition (Marquis Who's Who)
16. Living Legends 2004 (International Biographical Centre)
17. Who's Who in the World, 22nd Edition 2005 (Marquis Who's Who)
18. Who's Who in Science and Engineering, 8th Edition 2005-2006 (Marquis Who's Who)
19. Dictionary of International Biography – Thirty-Second Edition (International Biographical Centre)
20. Great Lives of the 21st Century (International Biographical Centre)
21. Cambridge Blue Book (International Biographical Centre)
22. Who is Who in Poland, Fourth Edition (Hübner Who is Who), in Polish
23. International Directory Of Distinguished Leadership, Deluxe Eleventh Edition (American Biographical Institute)
24. Contemporary Who's Who of Professionals, Edition 2004-2005 (American Biographical Institute)
25. International Educator of the Year 2005 (American Biographical Institute)
26. Who's Who in Computational Science and Engineering, Edition 2005 (Saxe-Coburg Publications)
27. International Directory of Experts and Expertise (American Biographical Institute)
28. Man of the Year – A Celebrated Collection of Biographies 1990-2006 (American Biographical Institute)
29. Cambridge Blue Book 2007 (International Biographical Centre)
30. Who's Who in Science and Engineering, 2006-2007 (Marquis Who's Who)
31. Who's Who in Science and Engineering, 10th Anniversary Edition, 2007
32. Contemporary Who's Who of Professionals, Edition 2007-2008 (American Biographical Institute)
33. American Biographical Institute, The International Directory of Distinguished Leadership, 2008
34. Who's Who in the World 2008, 25th Edition (Marquis Who's Who)
35. Who's Who in Science and Engineering, 2008-2009, 10th Anniversary Edition (Marquis Who's Who)
36. 2000 Outstanding Intellectuals of the 21st Century, International Biographical Centre, Cambridge, England

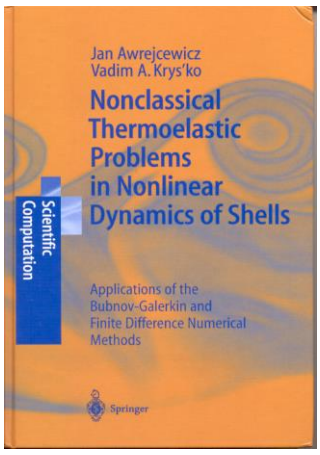
Attachment A

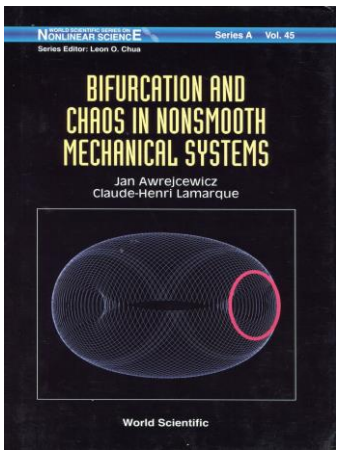
FOREIGN LANGUAGE MONOGRAPHS, BOOKS AND CONFERENCE MATERIALS

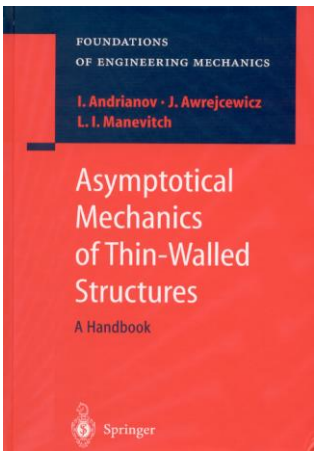


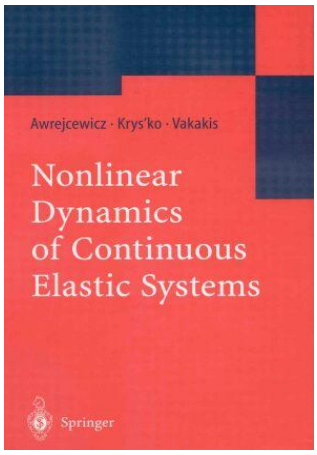


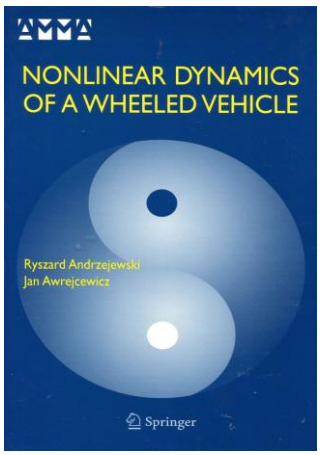


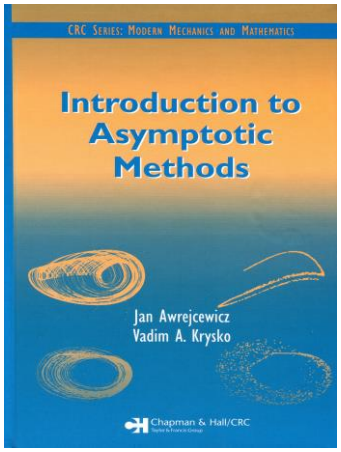


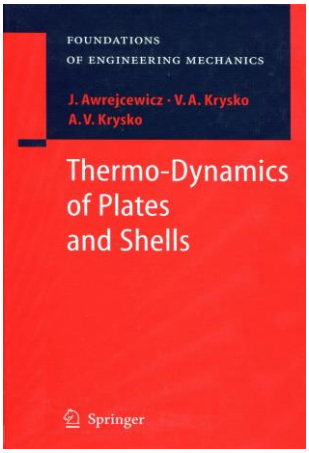


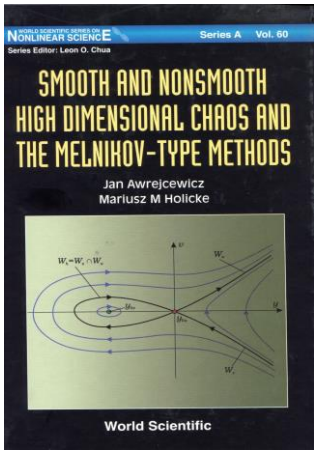


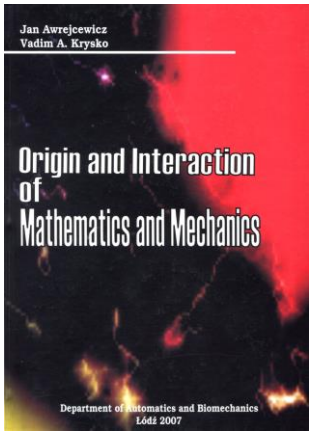


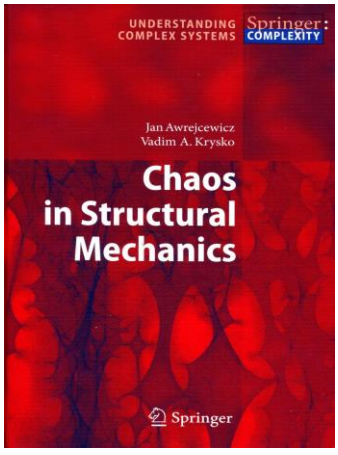


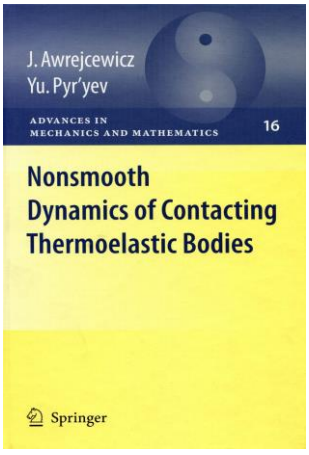


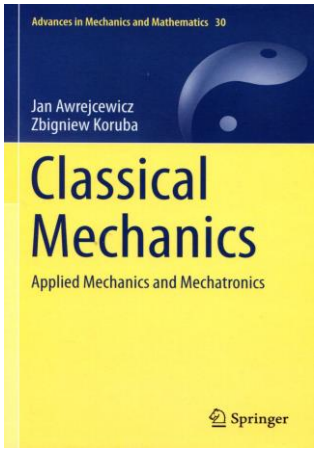


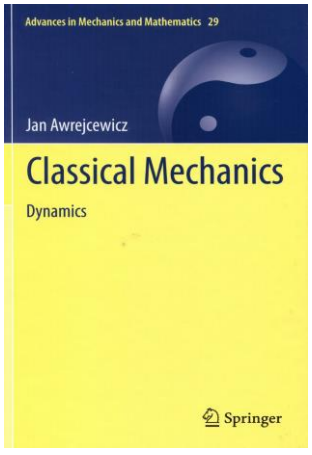












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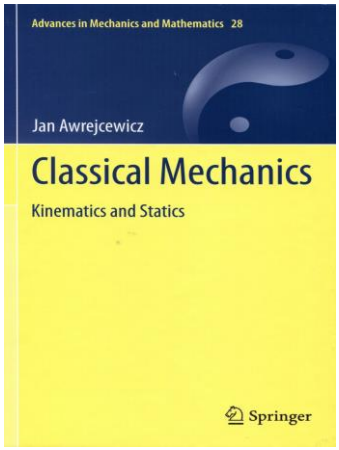

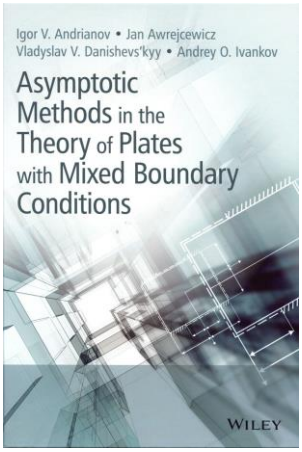

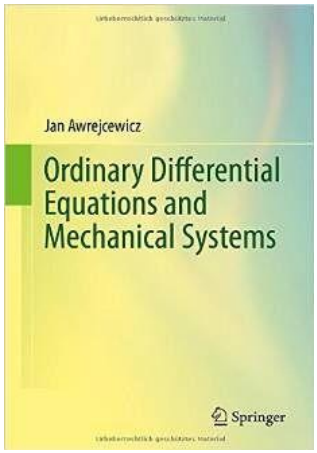

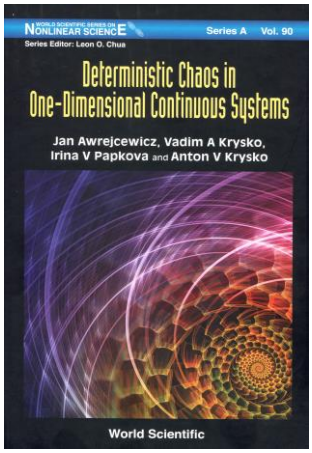

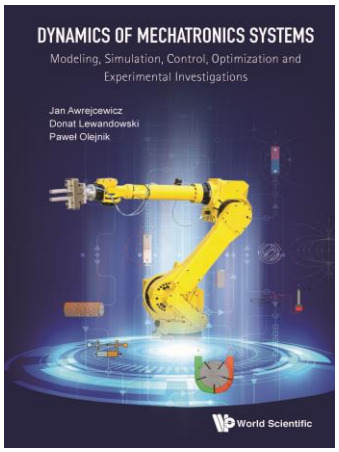

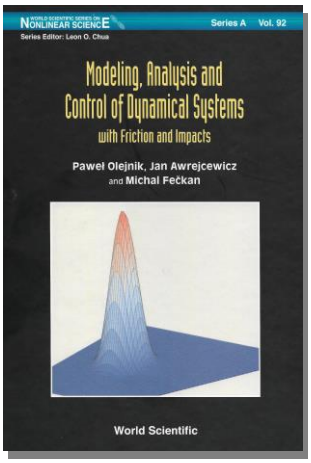

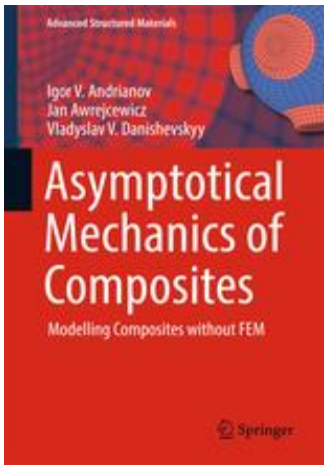

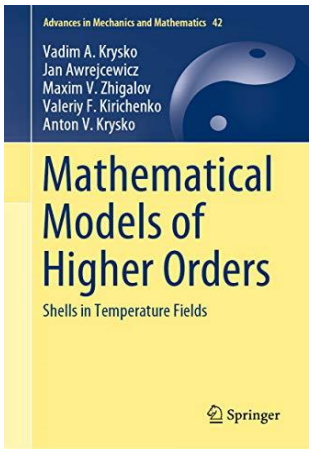

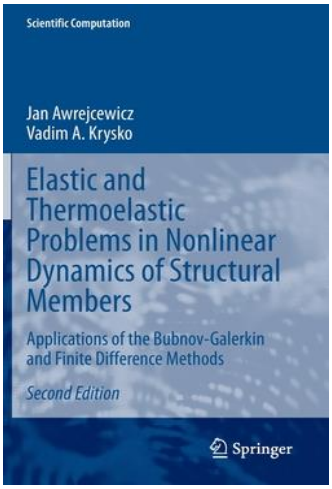

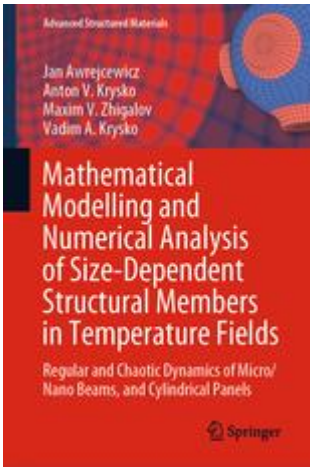

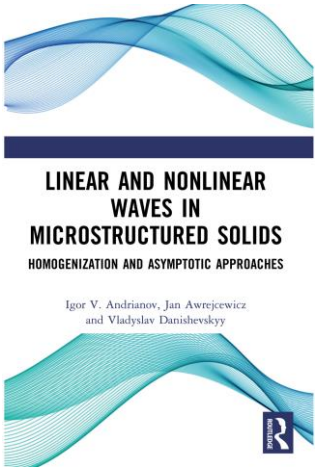

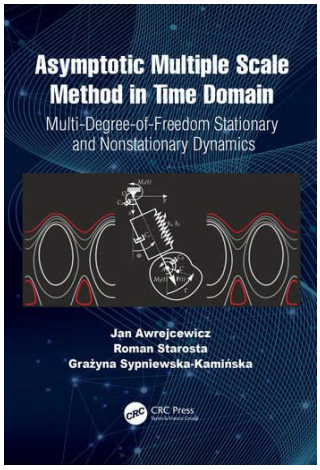

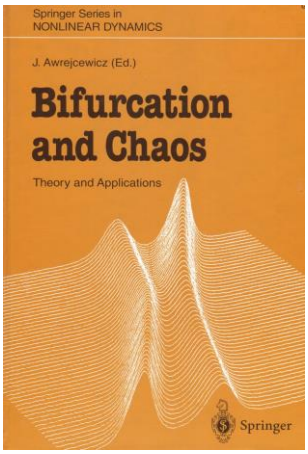

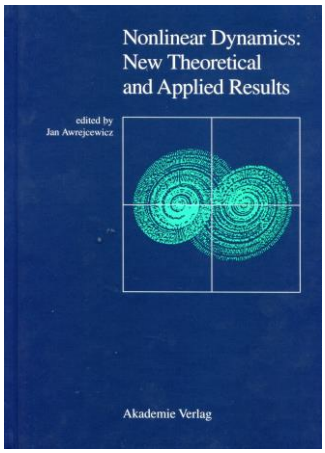

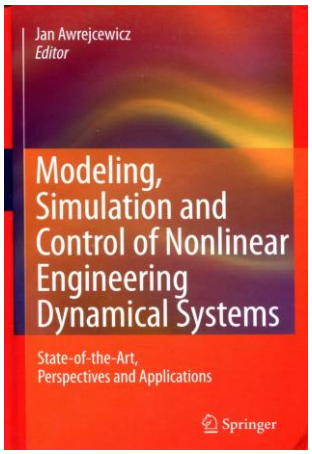

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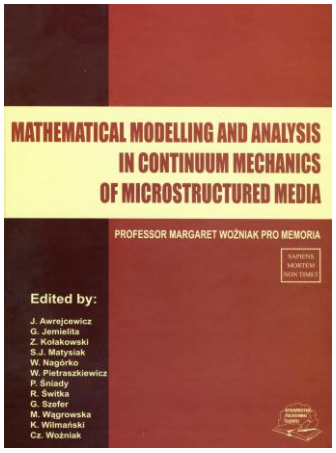

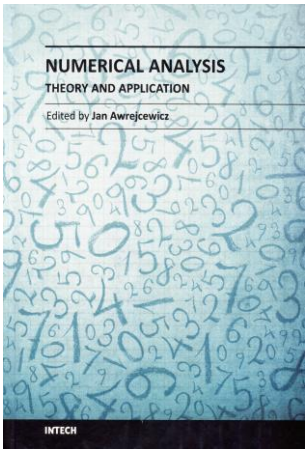

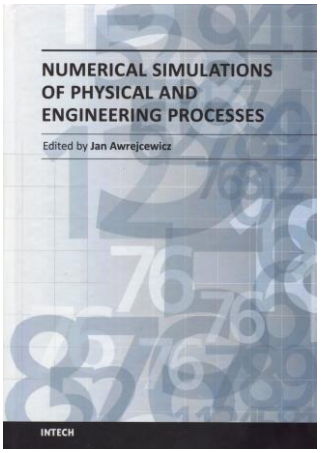

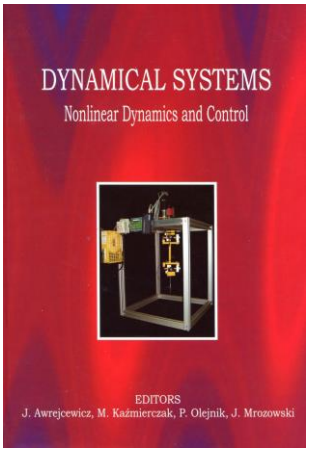

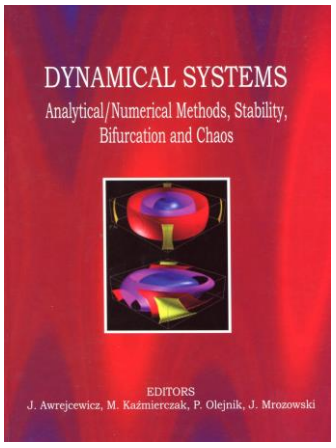

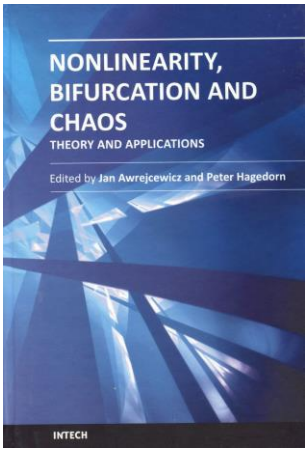

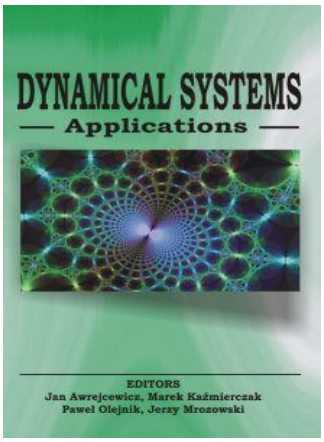

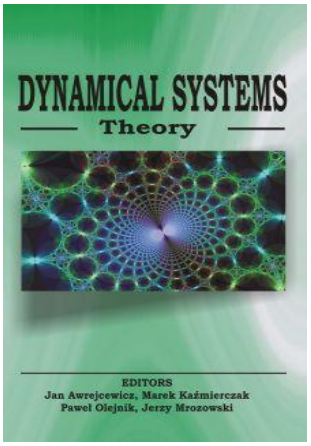

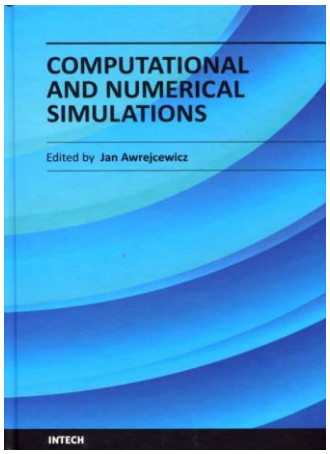

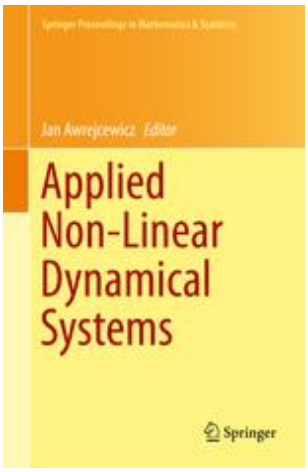

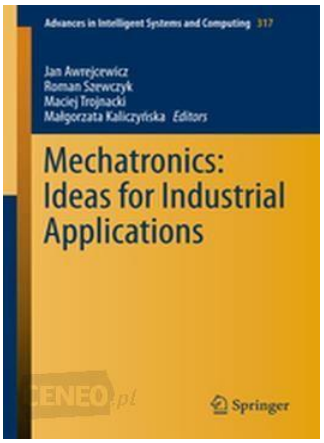

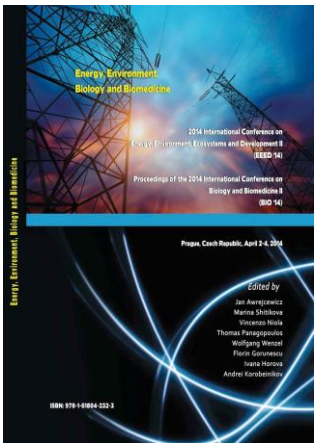

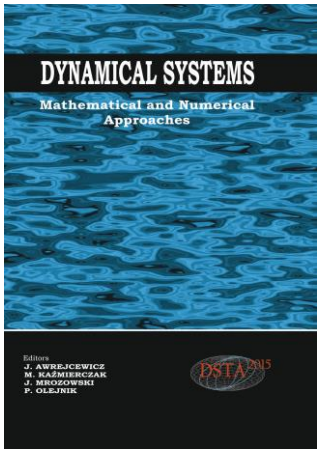

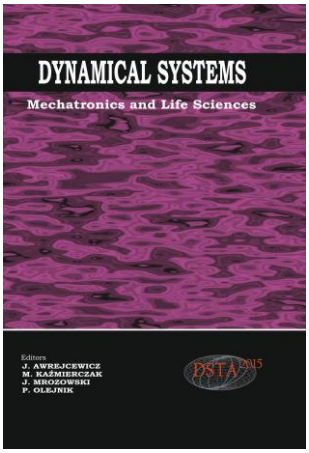

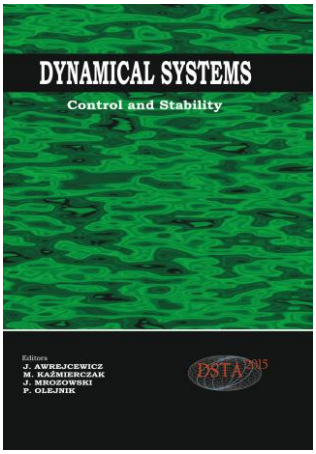

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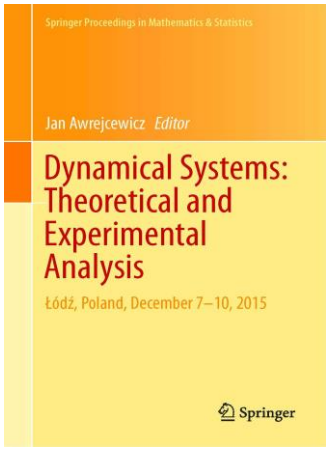

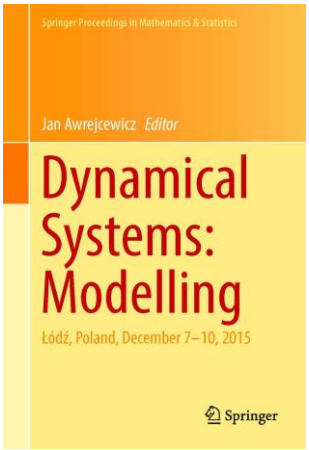

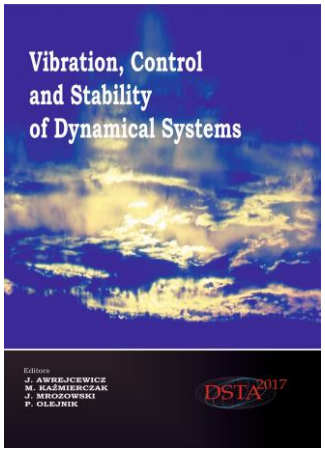

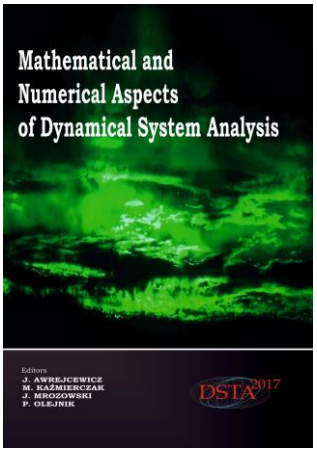

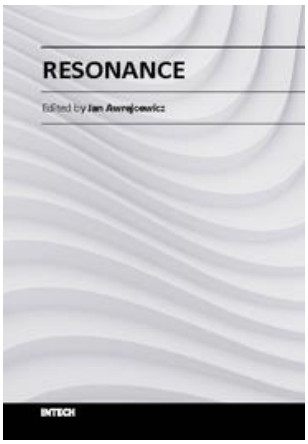

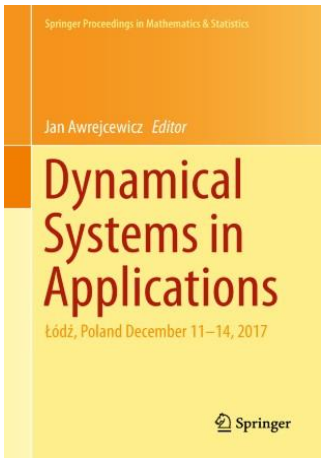

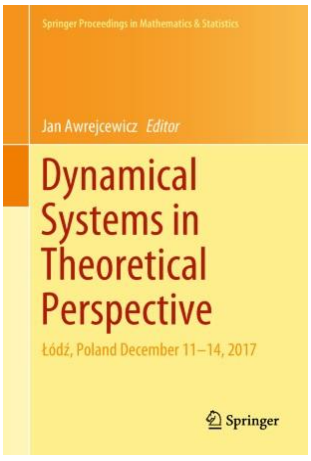

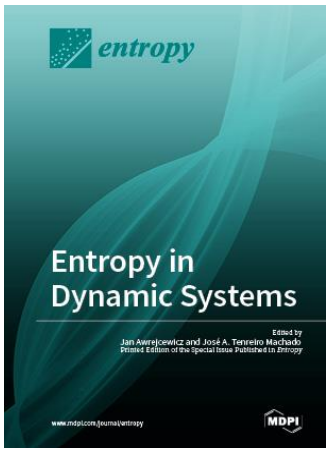

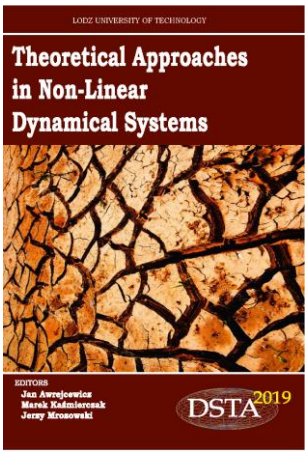

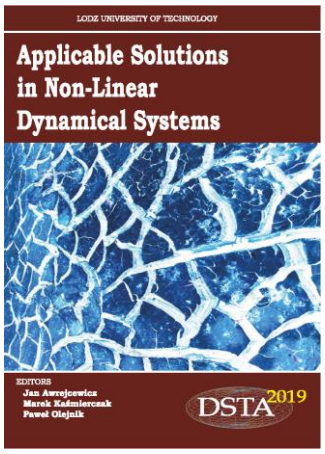

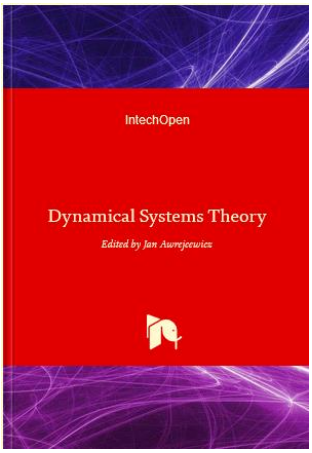

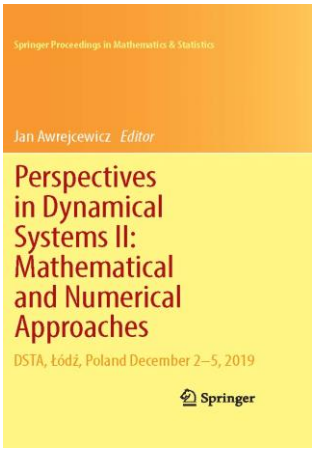

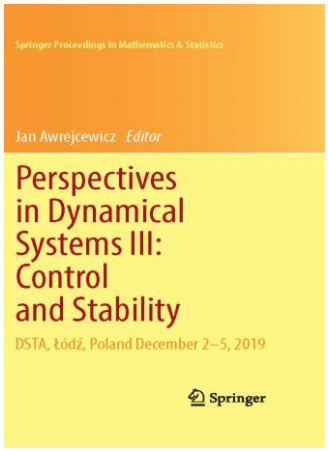

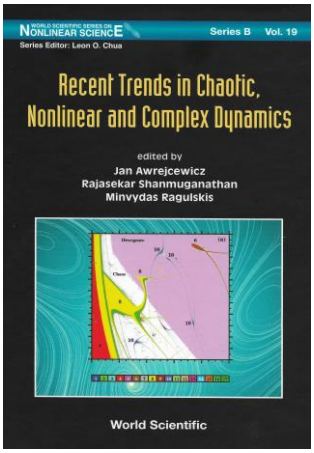

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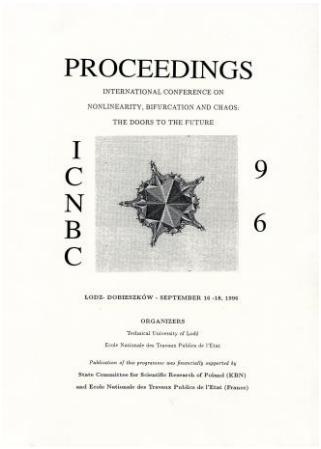
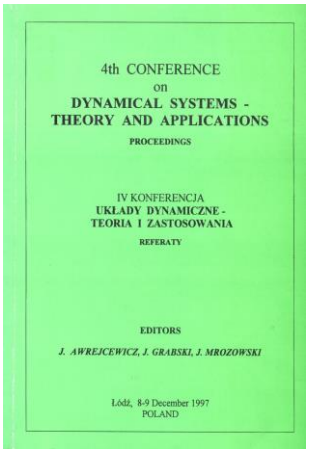
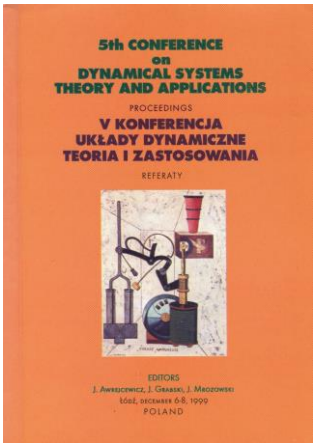
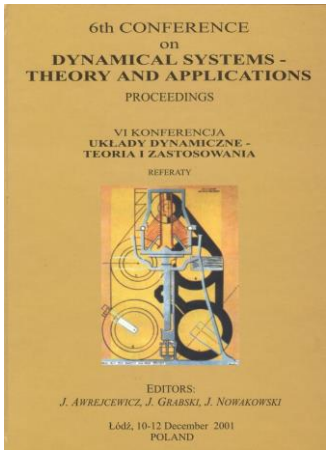
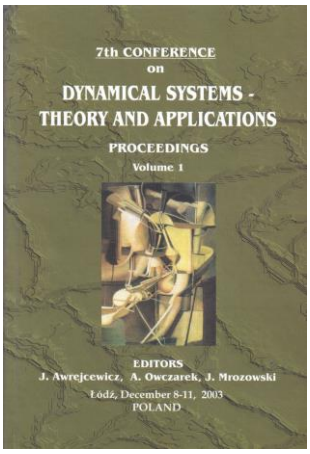
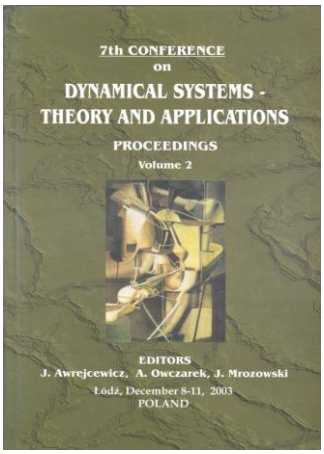


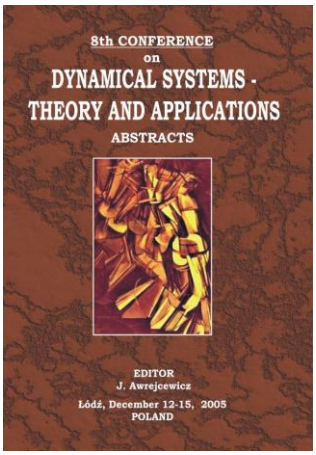


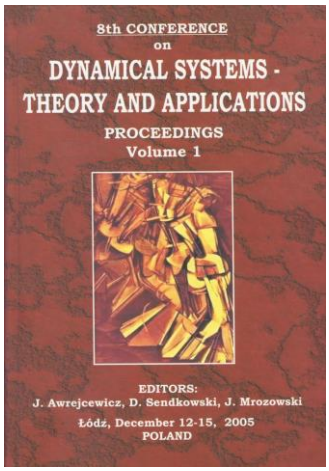


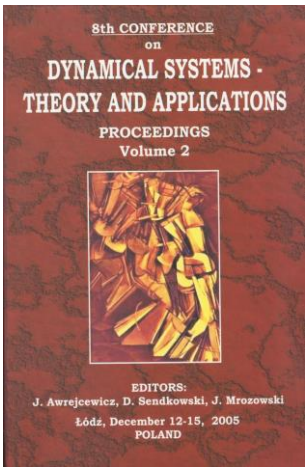


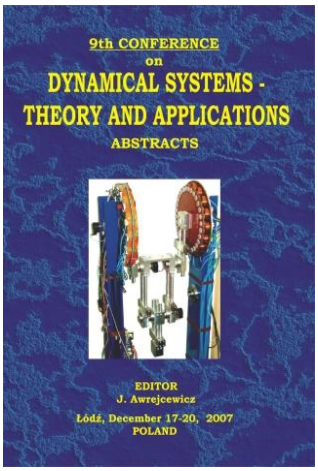


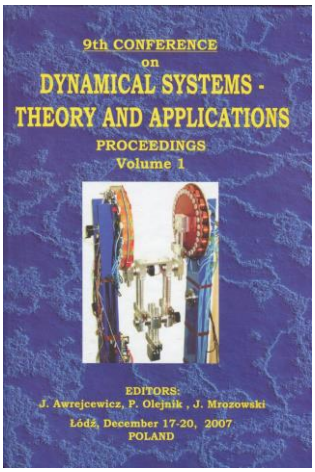


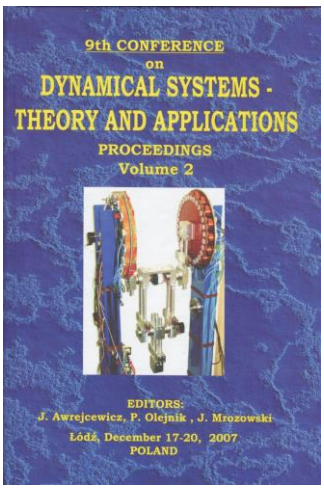


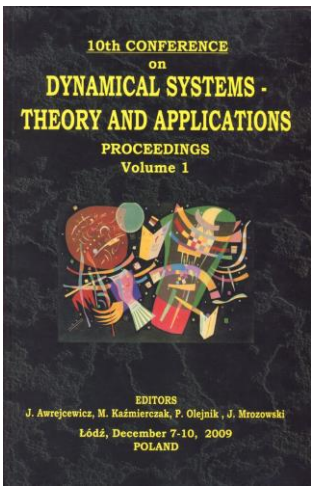


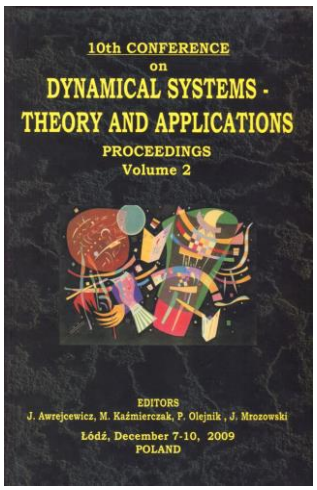


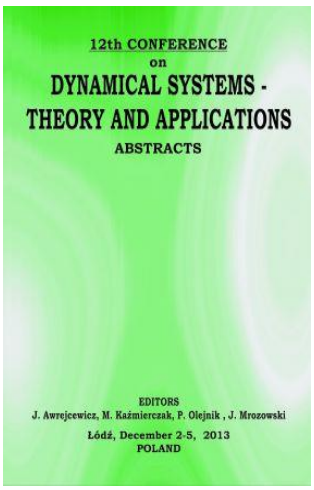




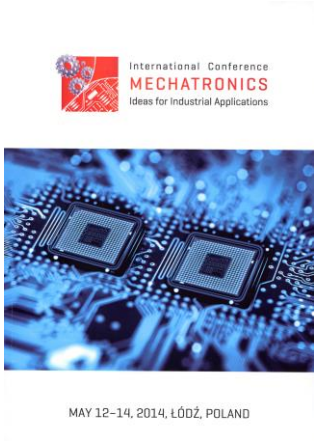


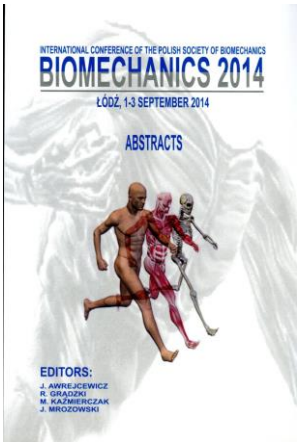


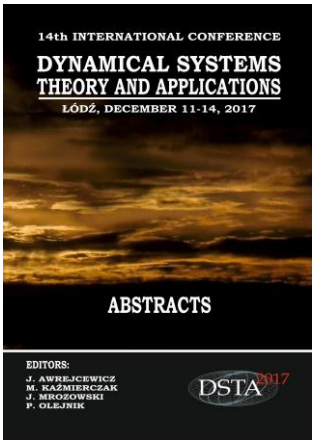


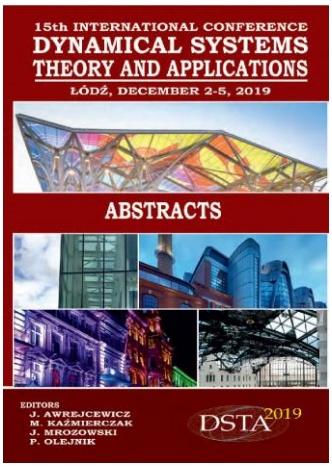


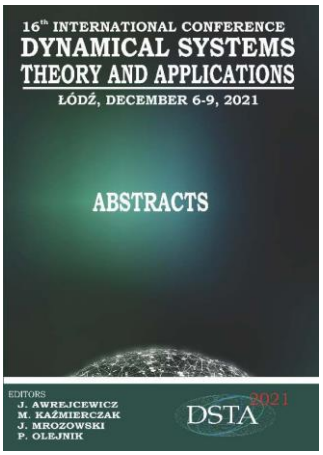
Attachment A





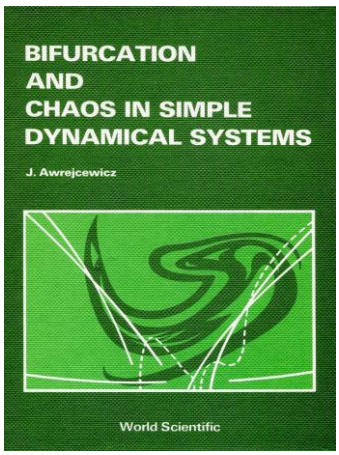


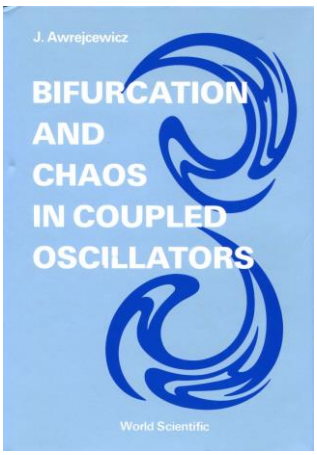


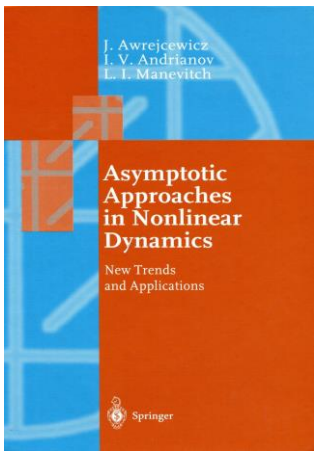


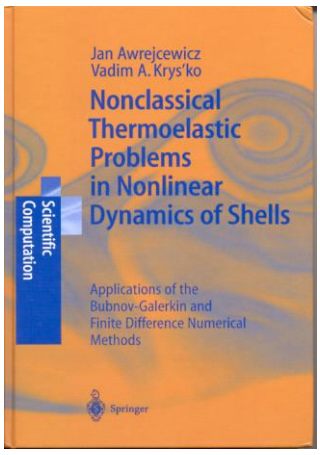
Attachment A

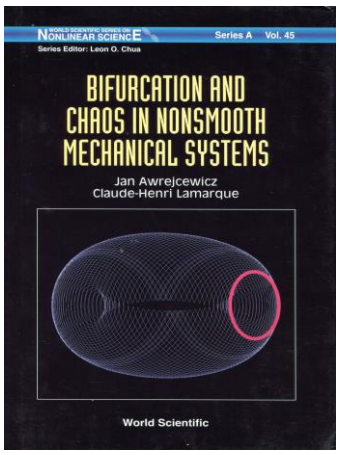
FOREIGN LANGUAGE MONOGRAPHS, BOOKS AND CONFERENCE MATERIALS

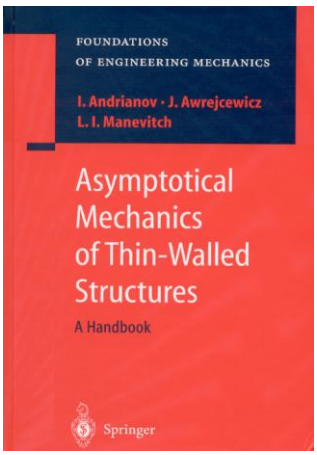


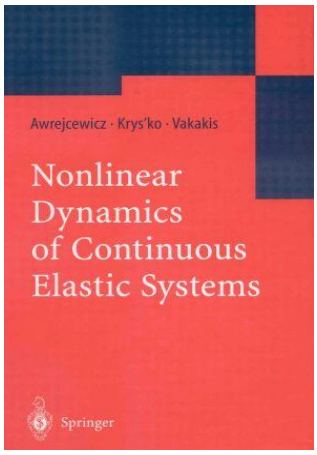


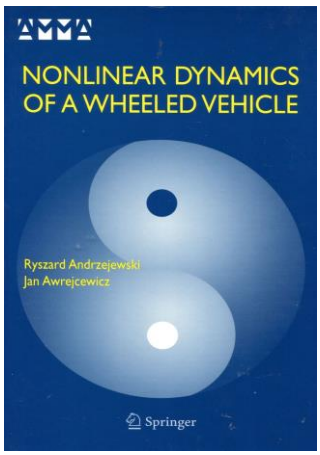


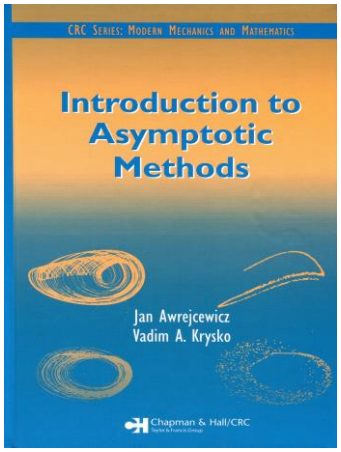


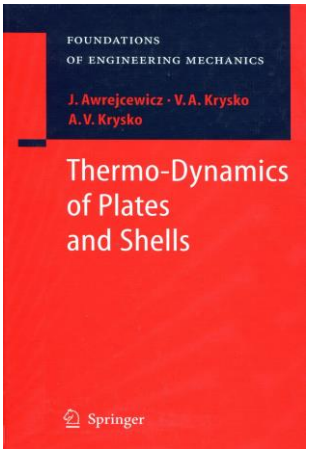


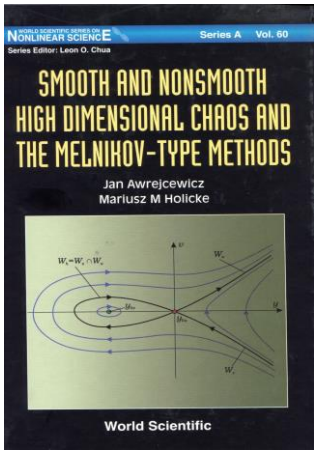


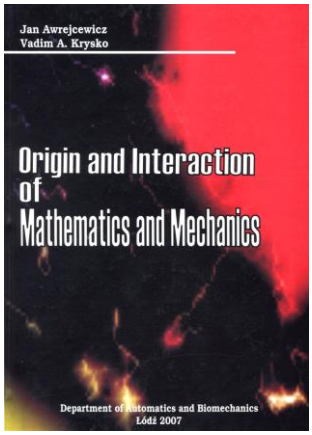


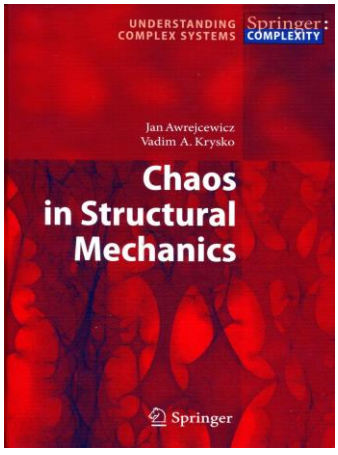


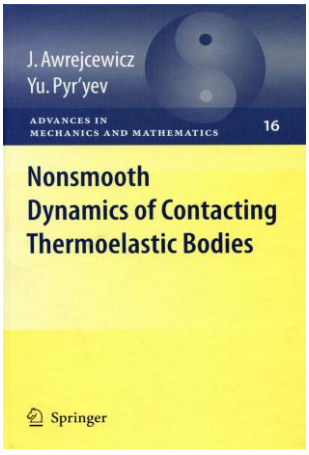


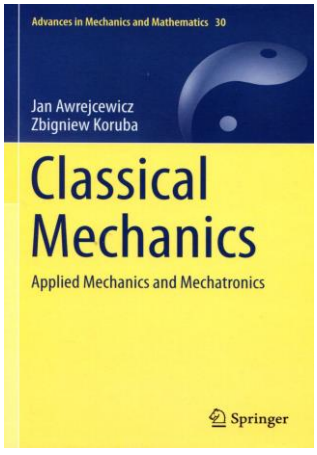


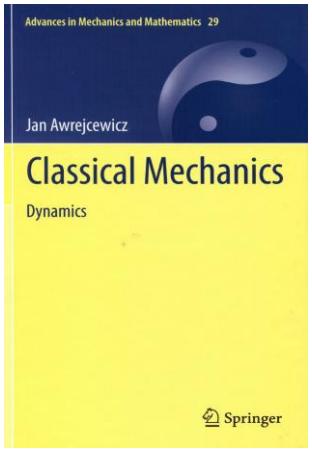




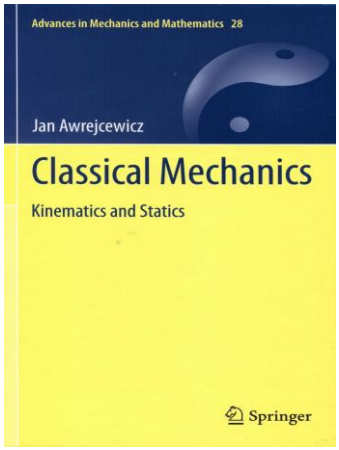


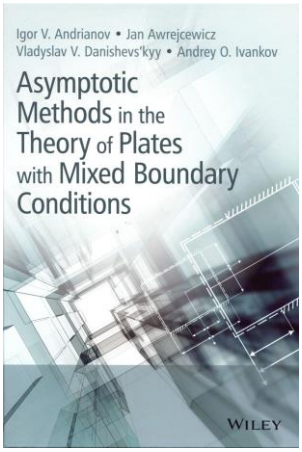


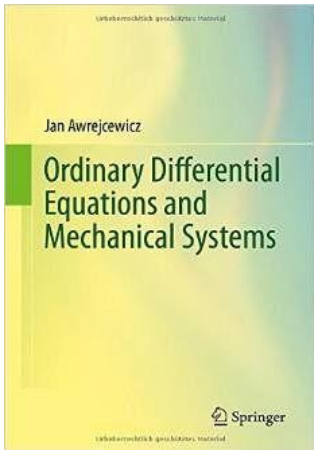


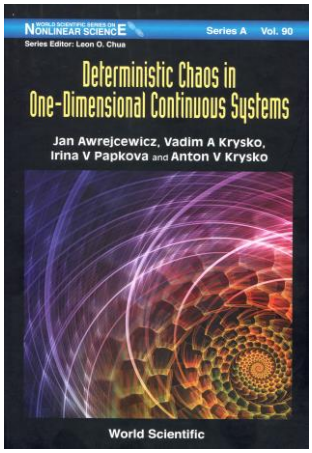


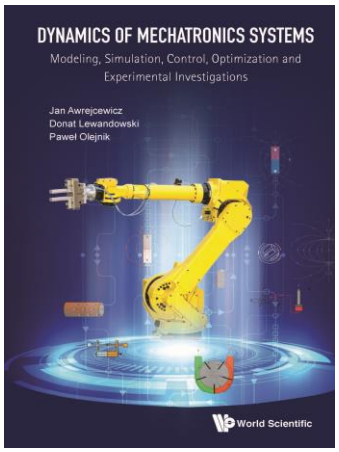
Attachment A

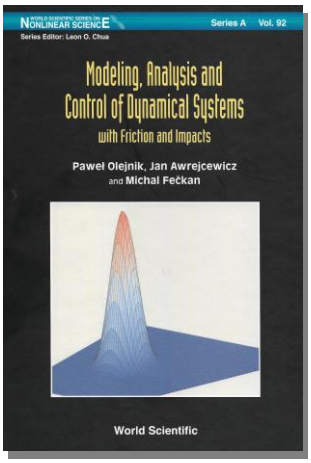


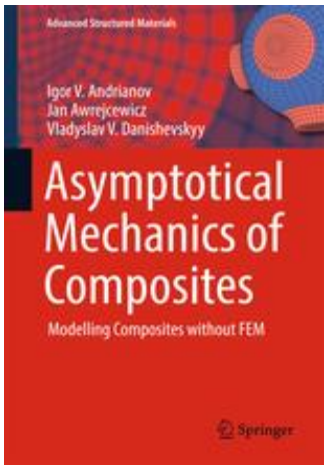


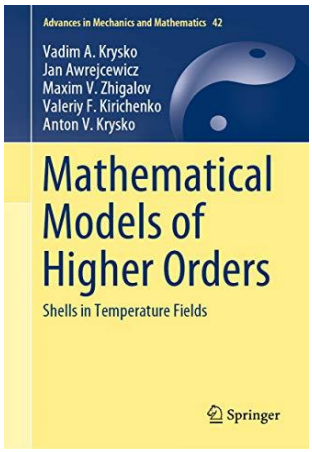


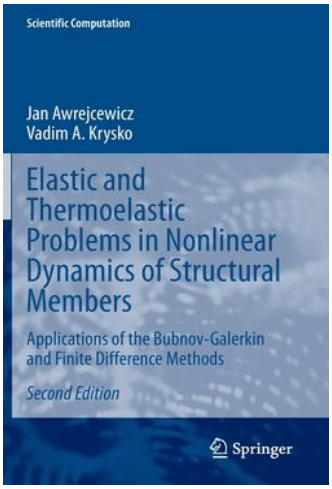


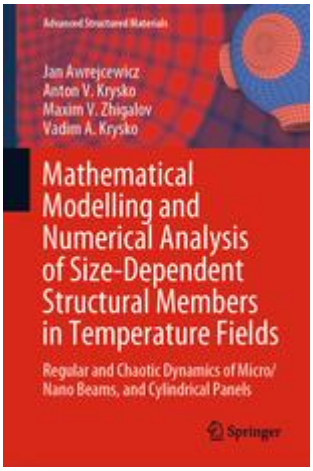


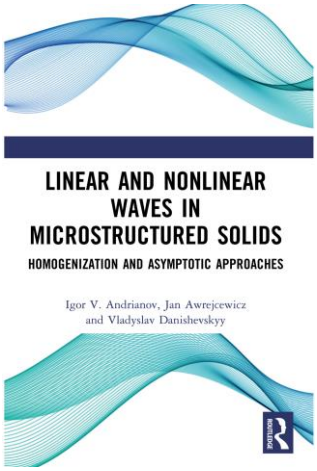


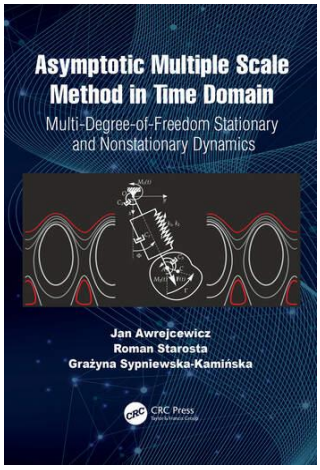


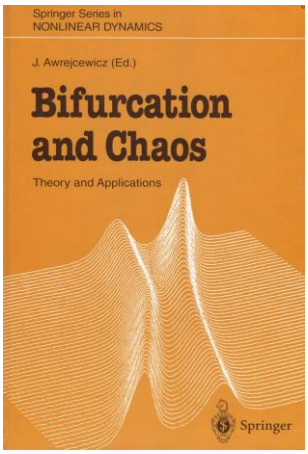


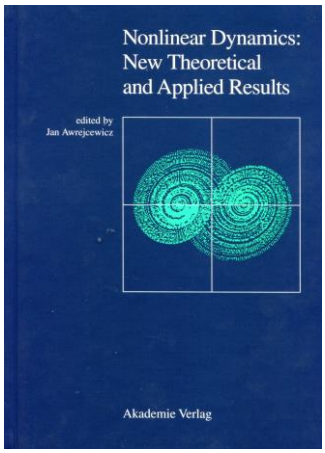


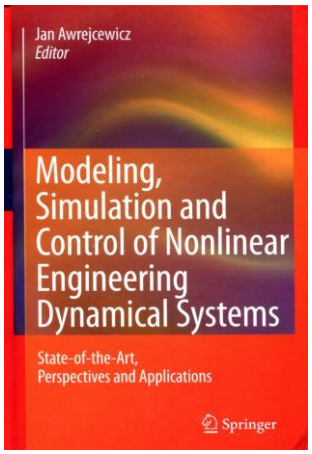




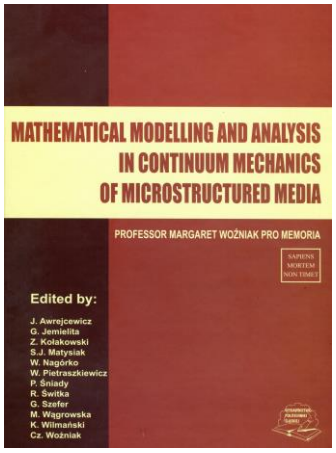


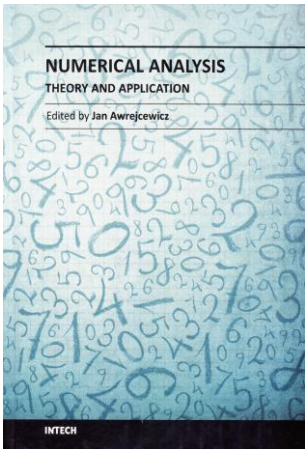


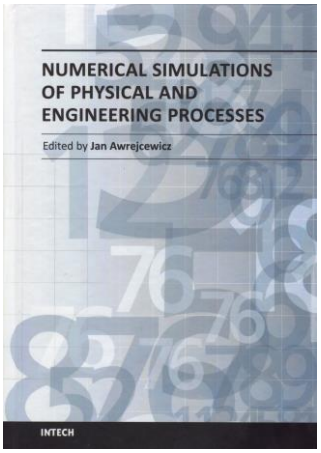


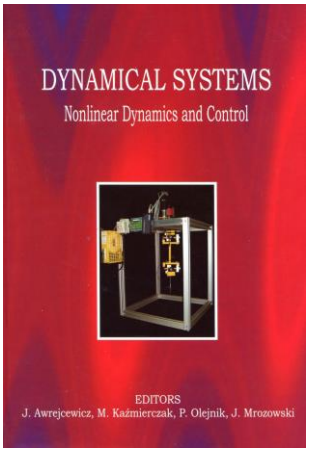


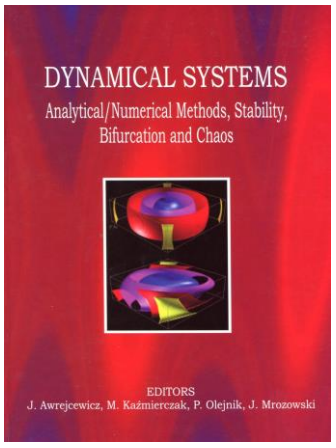
Attachment A

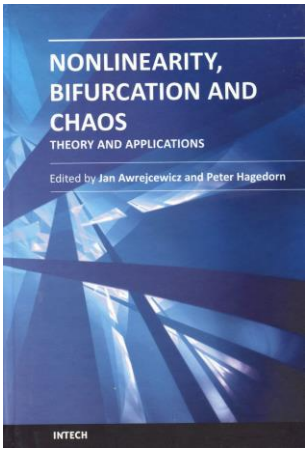


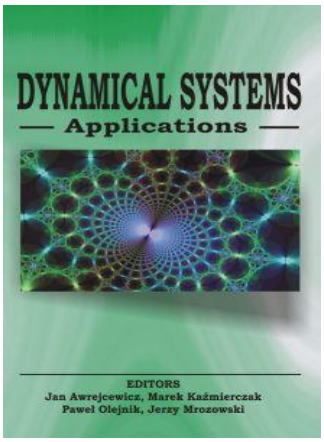


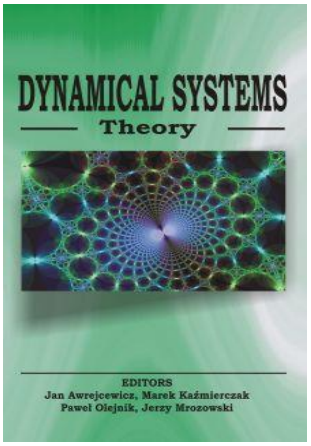


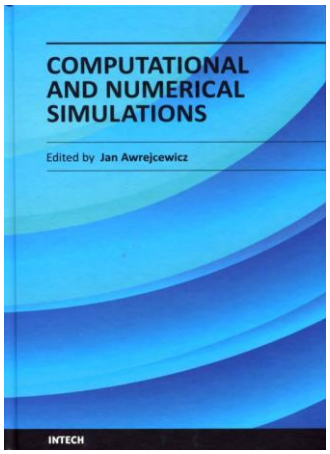


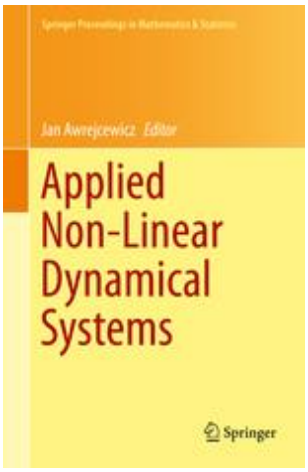


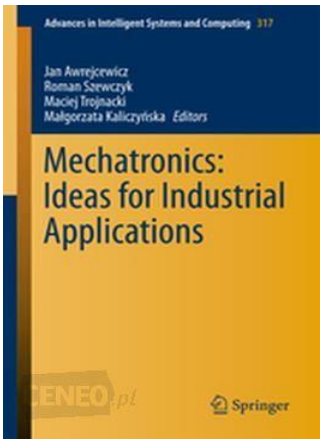


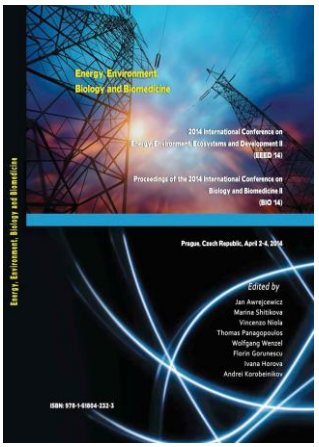


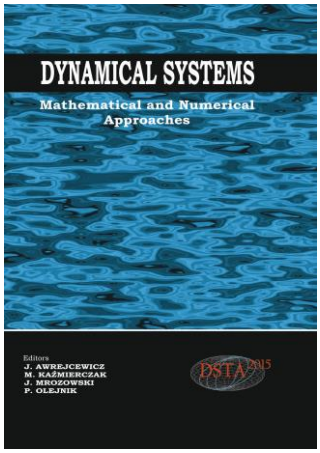


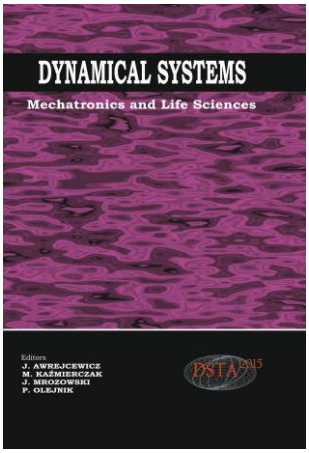


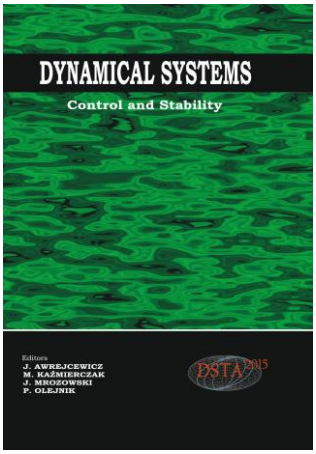




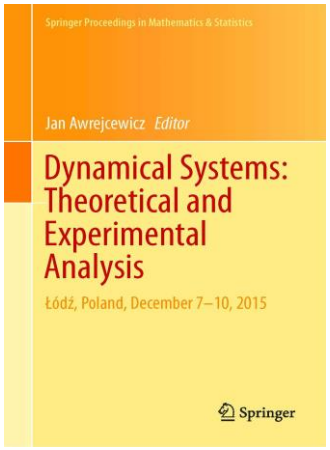


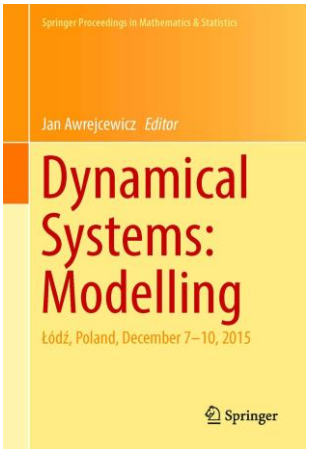


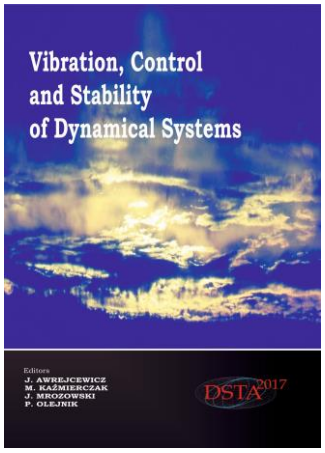


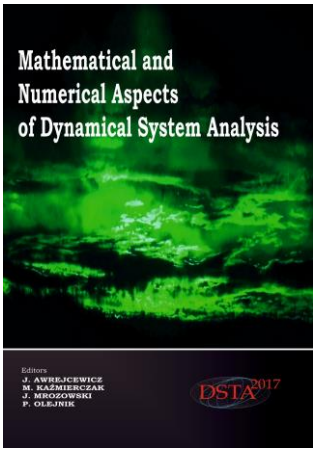


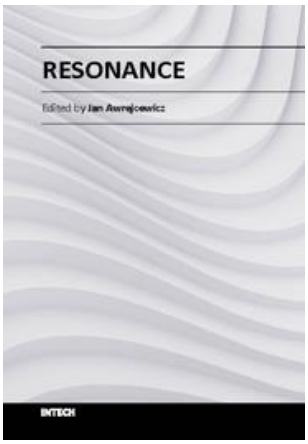
Attachment A

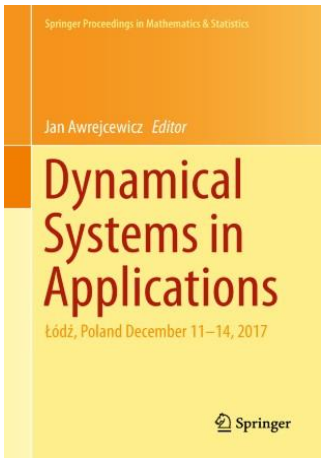


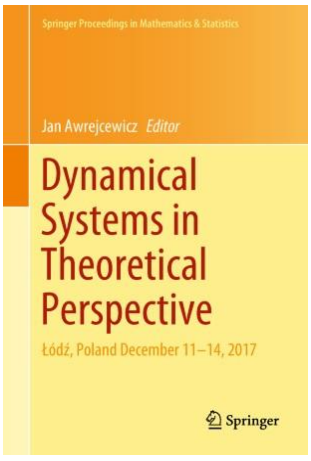


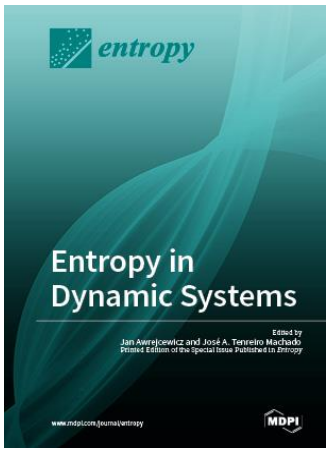


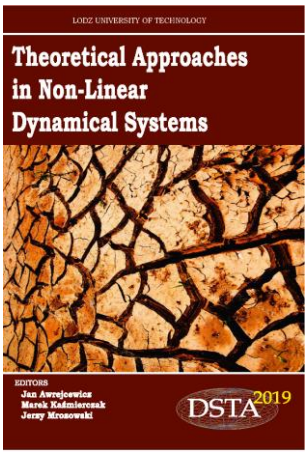


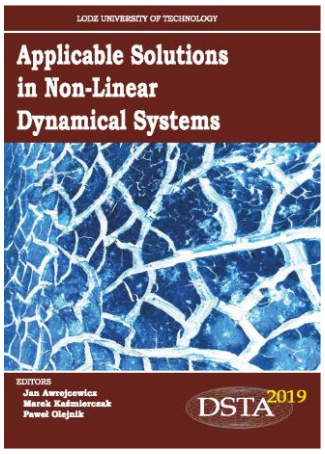


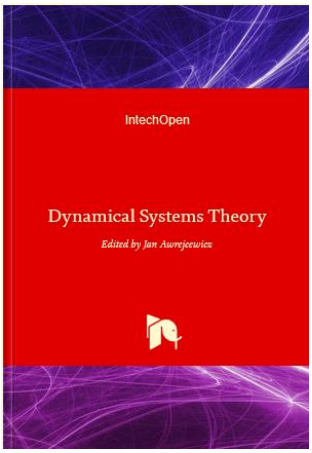


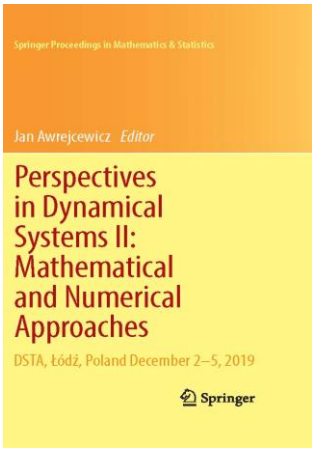


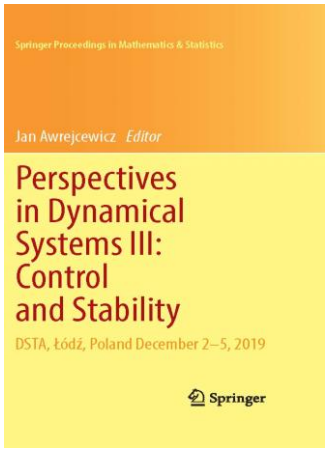


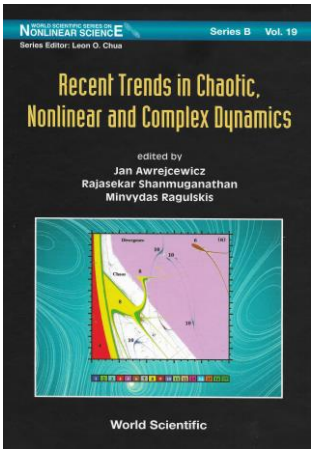




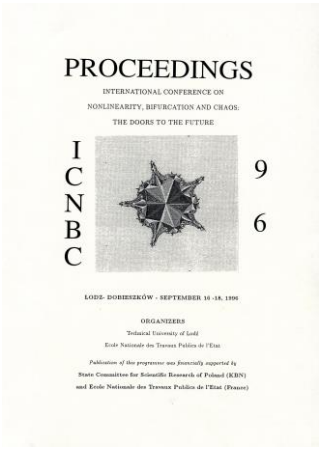


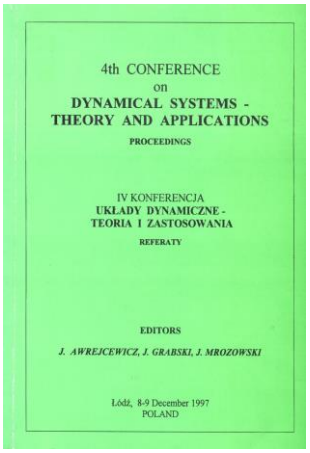


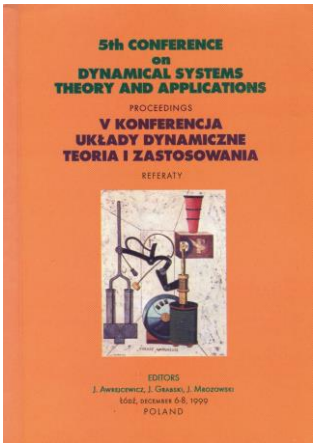


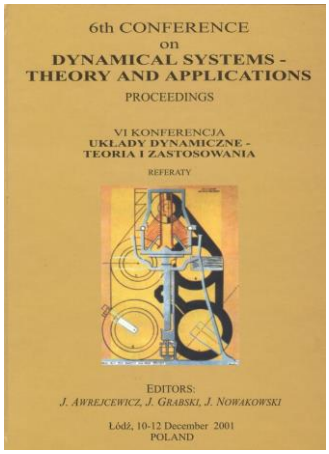


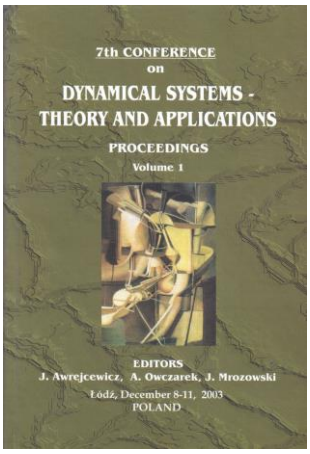
Attachment A

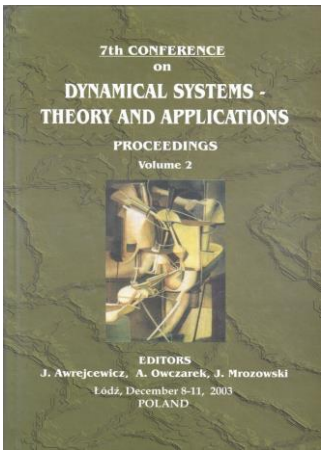


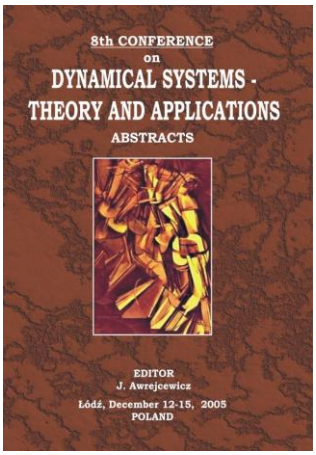


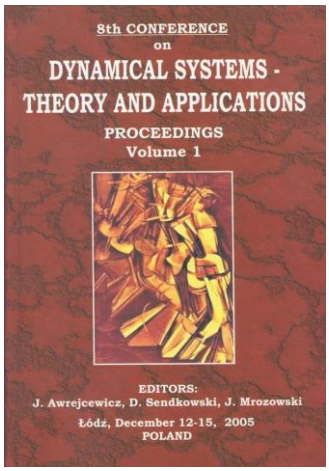


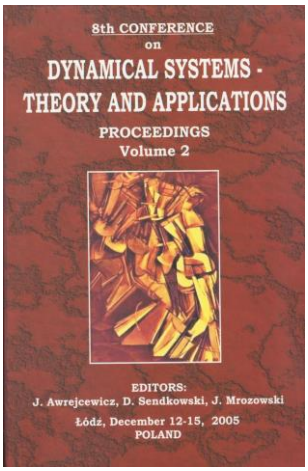


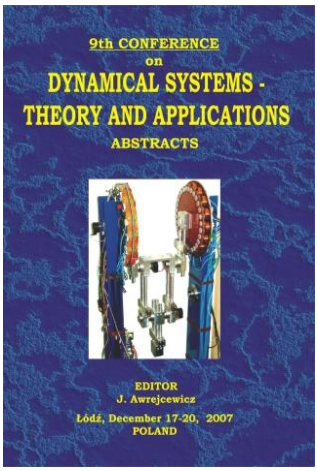


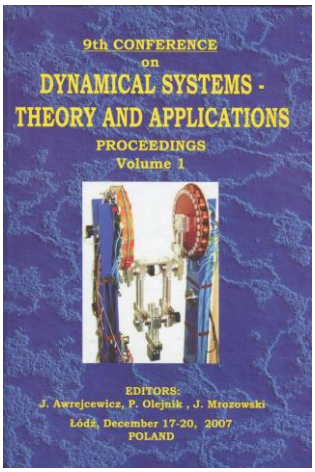


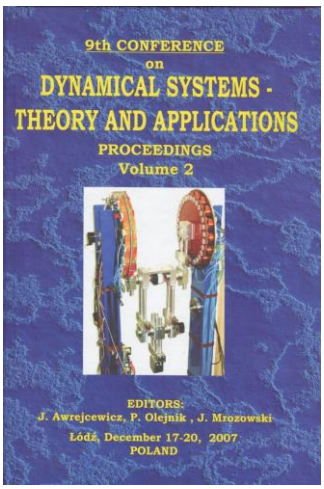


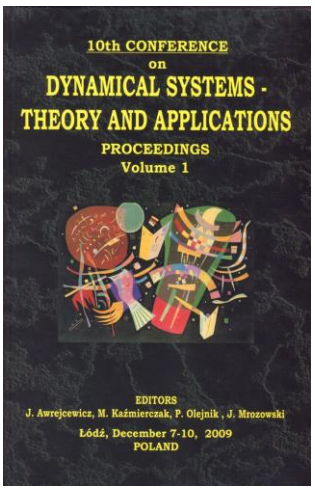


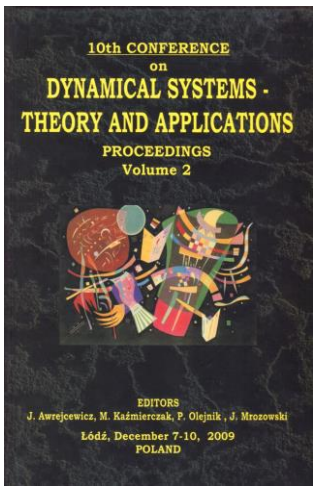


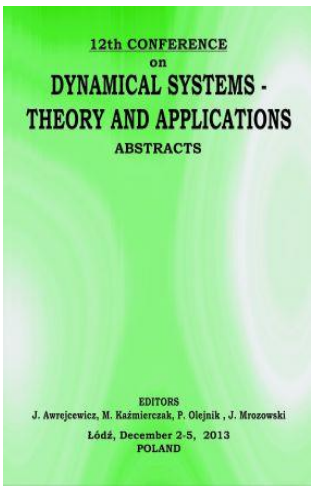




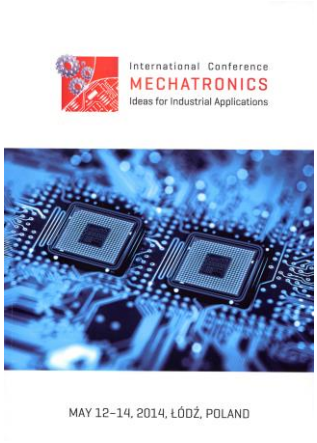


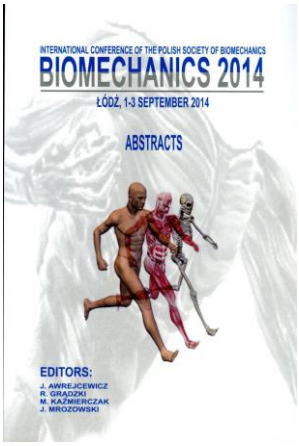


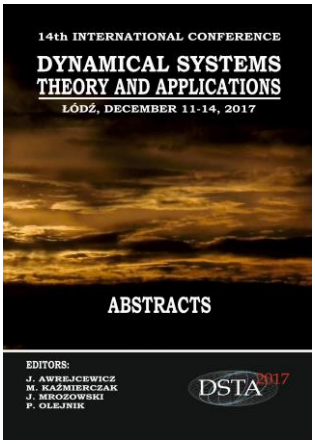


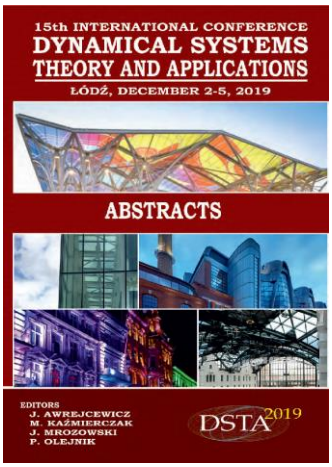


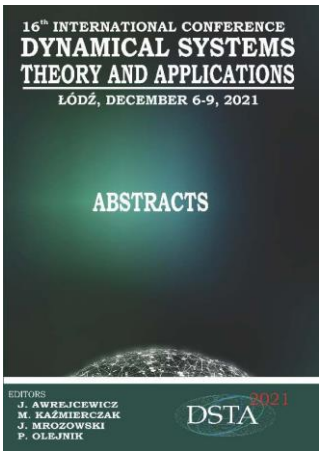
Attachment A





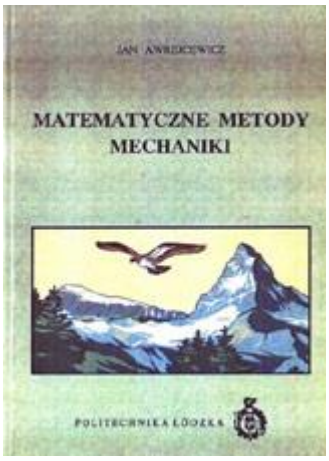


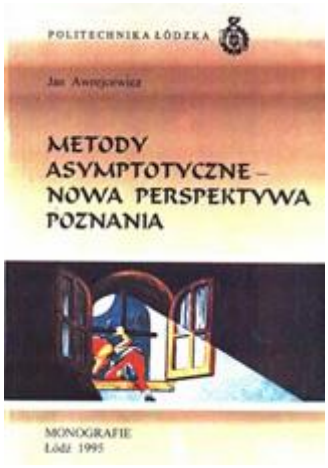


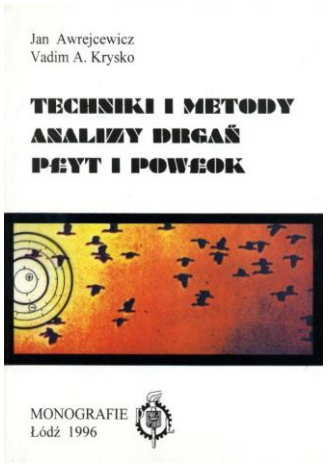


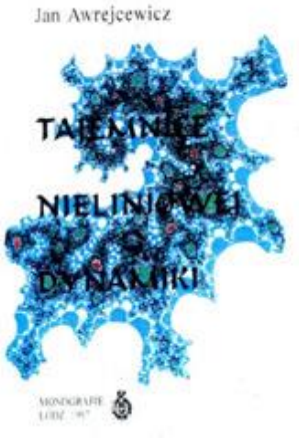
Attachment B

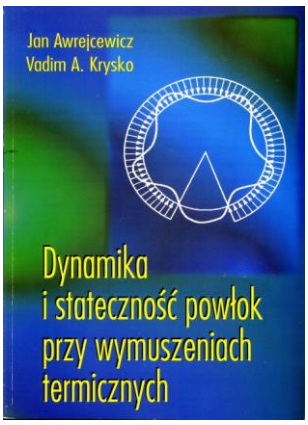
MONOGRAPHS AND BOOKS IN POLISH

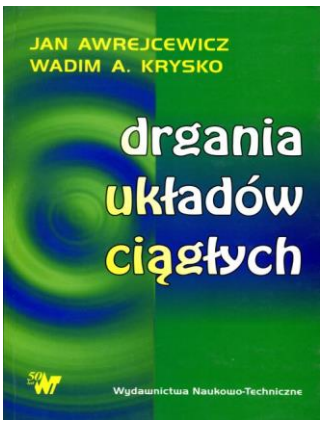


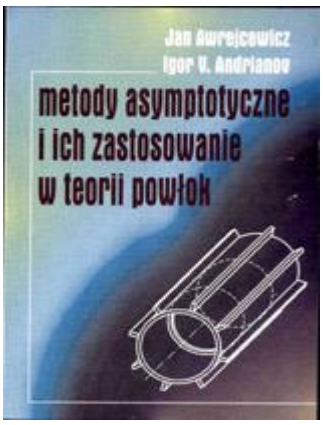


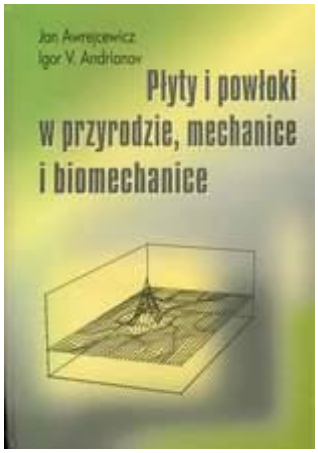


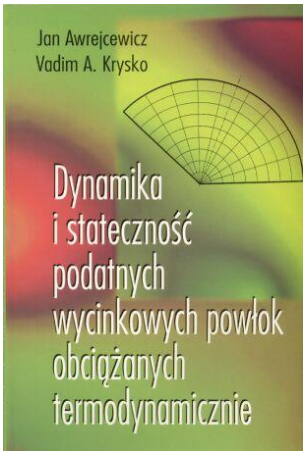












Attachment B