POLITECHNIKA ŁÓDZKA
Wydział Mechaniczny (WM PŁ)

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Częstochowskiej, Świętokrzyskiej, Gdańskiej, ATH w Bielsku-Białej,
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w Dniepr (Ukraina)
Członek CK i RDN

PRZEGLĄD DOROBKU NAUKOWEGO

Łódź 2021

Łódź, dnia 2021-04-01

Prof. zw. dr hab. inż. Jan AWREJCEWICZ

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– Streszczenia	**480**	www.abm.p.lodz.pl
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SPIS TREŚCI

Prof. zw. dr hab. inż. Jan Awrejcewicz

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Inżynieria Mechaniczna

Jan Awrejcewicz urodził się 26. sierpnia 1952 roku w Teleszach. Odpowiednio w 1977 i 1981 roku uzyskał stopień magistra i doktora nauk technicznych w dyscyplinie Mechanika na Politechnice Łódzkiej. Ponadto, w 1978 roku ukończył na Uniwersytecie Łódzkim studia na kierunku Filozofia, a w roku 1990 uzyskał tytuł doktora habilitowanego w dyscyplinie Mechanika na Politechnice Łódzkiej. Kandydat uzyskał tytuł profesora w 1994 roku z rąk ówczesnego prezydenta RP Lecha Wałęsy, a dwa lata później, w roku 1996, został odznaczony Złotym Krzyżem Zasługi przez kolejnego prezydenta, Aleksandra Kwaśniewskiego.

Profesor Awrejcewicz jest autorem/współautorem **848** publikacji w czasopismach naukowych oraz recenzowanych materiałach konferencji międzynarodowych i krajowych, **54** monografii, **2** podręczników, **202** rozdziałów w książkach, **34** redakcji zbiorów prac, **22** książek pokonferencyjnych, **40** wydań specjalnych renomowanych czasopism, **480** streszczeń, **14** raportów technicznych, a także **10** innych prac zwartych.

Profesor J. Awrejcewicz pełni obecnie funkcję kierownika utworzonej z Jego inicjatywy Katedry Automatyki, Biomechaniki i Mechatroniki, kierownika studiów doktoranckich na kierunku Mechanika oraz kierownika kierunku kształcenia Mechatronika, prowadzonych na Wydziale Mechanicznym Politechniki Łódzkiej.

Profesor J. Awrejcewicz jest lub był członkiem komitetów redakcyjnych **96** zagranicznych i krajowych czasopism naukowych z dyscyplin mechaniki i układów dynamicznych. Był także członkiem komitetów naukowych **216** konferencji zorganizowanych w różnych ośrodkach całego świata. W trakcie swoich podróży naukowych odwiedził z odczytami i seminariami uniwersytety naukowe w **75** różnych krajach. Jego zainteresowania i badania obejmują matematykę stosowaną, mechanikę, biomechanikę, automatykę, fizykę oraz informatykę.

Pełnione funkcje i stanowiska

1977-1980	Doktorant – studia doktoranckie z Dynamiki i Automatyki Maszyn na Politechnice Łódzkiej (PŁ)
1981	Specjalista inżynier – Instytut Mechanicznej Technologii Włókna PŁ (pół roku)
1981-1992	Adiunkt – Instytut Mechaniki Stosowanej PŁ
1985-1986	Adiunkt stażysta – IPPT PAN, Warszawa (1 rok)
1986	Adiunkt stażysta – Centrum Matematyki im. S. Banacha, PAN, Warszawa (pół roku)
1987	Adiunkt stażysta – Department of Dynamic and Control, Strathclyde University, Glasgow, 1987, Szkocja
1991	Adiunkt stażysta – Department of Mechanical Engineering, Tokyo University, Japonia
1991-1992	Kierownik Katedry Automatyki i Dynamiki Maszyn WM PŁ
1994-1998	Kierownik Zakładu Automatyki i Biomechaniki Instytutu Maszyn Przepływowych WM PŁ
1995-1998	Założyciel i kierownik Studiów Doktoranckich „Dynamika Układów Materialnych" WM PŁ
1998-2023	Założyciel i kierownik Studiów Doktoranckich „Mechanika" WM PŁ
1996-1998	Kierownik Zespołu ds. Nauki i Badań Naukowych IPPT PAN / PŁ
1998-	Założyciel i kierownik Katedry Automatyki i Biomechaniki WM PŁ
1995-2000	Członek Sekcji T07A i T11F KBN-u
1993-	Członek Komitetu Mechaniki PAN **(z wyboru)**
1999-2006	Członek Komisji Materiałów Biomedycznych PAN (oddział Łódź)
1997-2003	Przewodniczący Wydziałowej Komisji ds. Nauki
1995-1996	Kierownik Programów TEMPRA
1999-2001	Kierownik Programu POLONIUM
1999-	Kierownik Programu SOCRATES/ERASMUS
1999-	Kierownik **17** projektów badawczych KBN, MNiSW, NCN i FNP
2006-2012	Przewodniczący Sekcji „Nonlinear Oscillations" of IFToMM (International Federation of Theory of Machines and Mechanisms) **(z wyboru)**
2007-	Kierownik kierunku kształcenia Mechatronika przy WM PŁ
2012-2014	Wiceprezes Polskiego Towarzystwa Biomechaniki **(z wyboru)**
2012-2016	Członek Polskiego Komitetu Teorii Maszyn i Mechanizmów Komitetu Budowy Maszyn PAN
2013-	Kierownik Katedry Automatyki, Biomechaniki i Mechatroniki WM PŁ
2013-2016	Członek Centralnej Komisji do Spraw Tytułow i Stopni Naukowych (MNiSW) **(z wyboru)**
2016-2020	Członek Zespołu Expertów Sekcji TMM PAN
2016-	Członek Korespondent PAN **(z wyboru)**

2016-2019 Członek Komitetu Wykonawczego Akademii Inżynierskiej w Polsce **(z wyboru)**

2017-2020 Członek Centralnej Komisji do Spraw Tytułow i Stopni Naukowych (MNiSW) **(z wyboru)**

2019-2022 Członek Rady Naukowej Instytutu Podstawowych Problemów Techniki Polskiej Akademii Nauk

2019-2023 Członek Międzynarodowej Rady Doradczej Instytutu Termomechaniki Czeskiej Akademii Nauk **(z wyboru)**

GŁÓWNE KIERUNKI DZIAŁALNOŚCI NAUKOWEJ

Działalność naukowa Kandydata obejmuje następujące dyscypliny naukowe: inżynieria mechaniczna (mechanika), automatyka, oraz inżynieria biomedyczna (biomechanika). Koncentruje się ona na następujących czterech kierunkach Jego aktywności naukowej.

1. Metody asymptotyczne

Rozszerzono zakres stosowania klasycznych metod asymptotycznych do analizy złożonych modeli układów mechanicznych ciągłych (pręty, płyty, powłoki i konstrukcje cienkościenne) oraz układów słabo i silnie nieliniowych dyskretnych o wielu stopniach swobody. Zaproponowano nowe metody analizy układów silnie nieliniowych, jak np. metody δ, aproksymacji Padégo, czy quasi-ułamkowe. Podano metodę wyznaczania przecięć rozmaitości stabilnych i niestabilnych orbit homoklinicznych w silnie nieliniowych układach o wielu stopniach swobody, tzn. sformułowano analityczne kryteria pojawienia się chaosu deterministycznego.

2. Dynamika nieliniowa układów dyskretnych

Kierunek ten obejmuje sformułowanie podstaw teoretycznych i uzyskanie nowych wyników dotyczących analizy zjawisk bifurkacji rozwiązań i chaosu deterministycznego w układach dynamicznych wielowymiarowych, opracowanie i implementacje oprogramowania dotyczącego globalnej analizy dynamiki układów silnie nieliniowych (a w tym określenie stabilności i bifurkacji orbit okresowych, quasi-okresowych i chaotycznych), opracowanie podstaw teoretycznych modelowania i analizy układów mechanicznych z tarciem i uderzeniami oraz efektywnych metod analitycznych i numerycznych oraz ich monitorowania i kontroli.

3. Dynamika, optymalizacja i sterowanie układów ciągłych

W tym obszarze uzyskano wiele oryginalnych wyników. Niektóre z nich podano poniżej:
(a) wyniki dotyczące stateczności cienkich powłok o małym wzniosie poddanych uderzeniom termicznym z uwzględnieniem zależności od temperatury, mechanicznych i termicznych własności materiału powłoki; (b) sformułowanie trójwymiarowego zagadnienia termosprężystości dla bryły prostopadłościennej z uwzględnieniem ścisłej matematycznej analizy i stabilności aproksymacji różnicowej; (c) opracowanie metod rozwiązywania równań różniczkowych cząstkowych eliptycznych, parabolicznych i hiperbolicznych; (d) analiza wpływu sprzężeń pól temperatur i odkształceń na stan naprężeniowo-odkształceniowy płyt z uwzględnieniem różnego rodzaju niestacjonarnych pól temperatur, niejednorodnych warunków brzegowych
i sprzężeń pól temperatur i odkształceń na stan naprężeniowo-odkształceniowy płyt; (e) wyboczenie cienkich powłok walcowych będących wynikiem kombinacji obciążeń statycznych i termicznych; (f) analiza wpływu parametrów geometrycznych oraz warunków brzegowych na zachowanie się powłok walcowych o niejednorodnym obciążeniu termosprężystym; (g) zastosowanie metody falkowej do analizy bifurkacji i chaosu płyt i powłok; (h) opracowanie metody analizy drgań pakietów prętów z więzami jednostronnymi; (i) nowe metody analizy chaosu przestrzenno-czasowego podczas drgań silnie nieliniowych belek, płyt i powłok.

4. Biomechanika inżynierska

Prace prekursorskie ukierunkowane na zastosowania dotyczące analizy stanu naprężeniowo-odkształceniowego części szyjnej i lędźwiowej kręgosłupa, modelowania strun głosowych, opracowanie i zbadanie własności mechanicznych nowych stentów wewnątrznaczyniowych (zgłoszony patent), modelowanie i badanie dynamiki strun głosowych, opracowanie nowego wszczepu części lędźwiowej kręgosłupa, badania eksperymentalno-numeryczne wybranych organów ludzkich, modelowanie żeber, klatki piersiowej, czaszki człowieka oraz niektórych implantów i zjawisk uderzeń w te organy, modelowanie mięśni, dynamika i stabilność chodu człowieka.

DOROBEK NAUKOWY I TECHNICZNY

Osiągnięcia Kandydata obejmują:

1. Organizację czterech szkół naukowych i uzyskanie wielu oryginalnych wyników w zakresie: (i) metod asymptotycznych; (ii) dynamiki nieliniowej układów dyskretnych; (iii) dynamiki układów ciągłych; (iv) biomechaniki.

2. Uzyskanie i opublikowanie szeregu oryginalnych wyników dotyczących trzech pierwszych szkół naukowych w monografiach i specjalnych wydaniach czasopism wydanych przez prestiżowe zagraniczne wydawnictwa i pozytywnie recenzowanych za granicą.

3. Opracowanie i wdrożenie wielu prac wykonywanych dla przemysłu.

Działalność naukowa Kandydata obejmuje aplikacje i znaczący wkład do współczesnych trendów mechaniki nieliniowej, takich jak: bifurkacje, chaos, dynamika i sterowanie układów niegładkich i kawałkami gładkich, metody analizy falkowej, współczesne metody analizy asymptotycznej wraz z ich implementacją symboliczną, nowe metody analizy numerycznej układów opisanych równaniami różniczkowymi cząstkowymi (dynamika i termo-dynamika płyt, powłok i belek o różnorodnych warunkach brzegowych).

Prace Kandydata stanowią istotny wkład do współczesnej mechaniki nieliniowej, automatyki i robotyki, biomechaniki, matematyki stosowanej i fizyki, metod numerycznych mechaniki oraz mechatroniki.

DANE BIBLIOMETRYCZNE KANDYDATA

1. *Web of Science*

   Liczba publikacji: **480**
   Liczba cytowań: **2881**
   Liczba cytowań z wykluczeniem samocytowań: **2160**
   h-index: **25**

2. *Google Scholar*

   Liczba cytowań: **10360**
   h-index: **44**
   i10-index: **263**

3. *Scopus*

   Liczba publikacji: **563**
   Liczba cytowań: **4240**
   h-index: **29**

4. *Publons*

   Liczba publikacji: **1028**
   Liczba cytowań: **3000**
   h-index: **25**

5. *Research Gate*

   RG Score: **46,86**
   Reads: **463 427**
   h-index: **36**

6. *ORCID (0000-0003-0387-921X)*

   Liczba publikacji: **1174**

NAGRODY I WYRÓŻNIENIA

Prestiżowe nagrody krajowe

- *Nagroda Indywidualna* ***Ministra Edukacji Narodowej*** za cykl publikacji poświęconych drganiom nieliniowym – 1996
- *Nagroda Zespołowa* ***Ministra Edukacji Narodowej i Sportu*** za współautorstwo monografii „*Nonclassical Thermoelastic Problems in Nonlinear Dynamics of Shells*" – 2004
- *Nagroda Zespołowa* ***Ministra Edukacji Narodowej i Sportu*** za współautorstwo monografii „*Nonlinear Dynamics of a Wheeled Vehicle*" – 2006
- Nagroda ***Złota Lampa*** **(PGNiG)** z dziedziny nauk technicznych – 2006
- *Nagroda Indywidualna (II stopnia)* ***Ministra Nauki i Szkolnictwa Wyższego*** za osiągnięcia naukowe – 2008
- Laureat Programu ***„Mistrz"*** w naukach technicznych w obszarze tematyki *„Matematyczne modelowanie, symulacja i sterowanie nieliniową dynamiką (biodynamiką) procesów i badań eksperymentalnych układów mechatronicznych"*, FNP – 2009
- *Tytuł* ***Doktora Honoris Causa*** *Politechniki Częstochowskiej, Częstochowa,* 2014
- *Tytuł* ***Doktora Honoris Causa*** *Akademii Techniczno-Humanistycznej w Bielsku-Białej, Bielsko-Biała,* 2014
- *Nagroda Indywidualna* ***Ministra Nauki i Szkolnictwa Wyższego*** *za osiągnięca dydaktyczne* – 2015
- *Nagroda Zespołowa* ***Ministra Nauki i Szkolnictwa Wyższego*** *za osiągnięca dydaktyczne – 2018.*
- *Tytuł* ***Doktora Honoris Causa*** *Politechniki Świętokrzyskiej, Kielce,* 2019
- *Tytuł* ***Doktora Honoris Causa*** *Politechniki Gdańskiej, Gdańsk,* 2019

Prestiżowe nagrody naukowe zagraniczne

- ***Japońskie Towarzystwo Promocji Nauki (JSPS)*****,** Uniwersytet Tokijski, Japonia (1990-1991),
  1 rok badań naukowych
- ***Centrum Badań Nauki i Technologii***, Uniwersytet Tokijski, *Profesor honorowy Mitsubishi*, Japonia (1992), 9 miesięcy badań naukowych
- *Fundacja* ***Alexandra von Humboldta***, Uniwersytet w Brunszwiku, Niemcy, (1987-1990, 1993), 2 lata badań naukowych
- *Grant* ***Ministra Edukacji Narodowej***, République Francaise, de la recherche et de la technologie, E.N.T.P.E., Vaulx en Velin (1999), 1 miesiąc badań
- *Nagroda* ***Fundacji im. T. Kościuszki*** (New York), Wydział Mechaniczny i Inżynierii Przemysłowej, Uniwersytet w Illions, Urbana USA (1999/2000), 3 miesiące badań naukowych
- ***Grant Région Rhône-Alpes***, TEMPRA PECO, ENTPE (2001/2002), Francja, 3 miesiące badań naukowych
- *Nagroda* ***Fulbrighta*** dla seniorów, Wydział Elektryczny i Informatyki oraz Wydział Mechaniczny, Uniwersytet Kalifornijski, Berkeley, 2001, 12 miesięcy badań naukowych i wykładów dla studentów i doktorantów
- *Stypendium* ***Central European University***, Department of Mathematics and Its Applications (2003), Budapeszt, Węgry, 1 miesiąc badań naukowych

- ***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 miesiące badań
- *Nagroda* ***Alexandra von Humboldta*** za osiągnięcia badawcze i dydaktyczne, 2010/2011 i 2016, 16 miesięcy badań naukowych
- ***Doctor Honoris Causa****, National Technical University "Kharkiv Polytechnic Institute*", Charków, Ukraina, 2019.
- ***Doctor Honoris Causa****, Prydniprowska State Akademy of Civil Engineering and Architekture,* Dnipro, Ukraina, 2021.

Prestiżowe odznaczenia

- *Złoty Krzyż Zasługi* (1996)
- *Medal MEN* (1998)
- *Krzyż Kawalerski Orderu Odrodzenia Polski* (2001)
- *Krzyż Oficerski Orderu Odrodzenia Polski* (2012)

CZŁONEK KOMITETÓW I TOWARZYSTW NAUKOWYCH (PRZYKŁADY)

- **Członek honorowy** Polskiego Towarzystwa Mechaniki Technicznej i Stosowanej (2021)
- **Członek Rady Doskonałości Naukowej (2019-2023) (*z wyboru*)**
- **Członek Centralnej Komisji do Spraw Tytułów i Stopni Naukowych przy MNiSW, 2013-2016, 2017-2020 (*z wyboru*)**
- **Członek korespondent PAN, 2016 (*z wyboru*)**
- Członek Polskiego Komitetu Teorii Maszyn i Mechanizmów Komitetu Budowy Maszyn 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 (*z wyboru*)**
- Członek Łódzkiego Towarzystwa Naukowego, 2005
- **Członek zwyczajny Akademii Inżynierskiej w Polsce, 2004 (*z wyboru*)**
- Consulting Editor of the Contemporary Who's Who, American Biographical Institute, 2004
- Członek w Sekcji Podstaw Konstrukcji w Komitecie Budowy Maszyn PAN, 1999-2002, 2003-2006
- Członek PKTMiM w Komitecie Budowy Maszyn PAN, 1999-2002, 2003-2006
- Członek Komitetu Mechaniki PAN, 1993-
- Członek Sekcji T07A i T11F KBN (w latach 1995-2000)
- Kierownik programów: (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
- Polskie Towarzystwo Mechaniki Stosowanej, 1981
- GAMM, 1995
- Society of Applied Electromagnetism, 1993
- Stowarzyszenie Inżynierów Mechaników Polskich, 1981
- Humboldtiana Polonorum Societas, 1987
- Technical Committee for Nonlinear Oscillation of the IFToMM, 1995
- Komitet Teorii Maszyn i Mechanizmów przy Komitecie Budowy Maszyn, PAN, 1995,
- Polskie Towarzystwo Biomechaniki, 1999
- American Association for the Advancement of Science, 2001

STAŻE I BADANIA ZA GRANICĄ

(miejsce, czasookres, rok)

Pobyty długoterminowe

Department of Dynamics and Control, The Strathclyde University, Glasgow, Szkocja	1 miesiąc	1987
Fundacja **Alexandra von Humboldta**, University of Braunschweig, Niemcy	24 miesiące	1987-1990 1993
Fundacja **Japanese Society for the Promotion of Science**, Tokyo University, Japonia	12 miesięcy	1990
Department of Mechanical Engineering, Tokyo University, Japonia	3 miesiące	1991
Research Centre for Advanced Science and Technology, The Tokyo University, Mitsubishi Endowed Chair, Japonia	9 miesięcy	1992
E.N.T.P.E., **Région Rhônes-Alpes**, TEMPRA, Lyon, Francja	6 miesięcy	1995
Department of Mathematics, The Waikato University, Hamilton, Nowa Zelandia	1 miesiąc	1996/1997
Nagroda Ministére de l'Education nationale, de la recherche et de la technologie, E.N.T.P.E., Vaulx en Velin, Francja	2 miesiące	1999
Fundacja im. T. Kościuszko, Mechanical and Industrial Engineering, University of Illions, Urbana, USA	3 miesiące	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 miesięcy	2001/2002
Région Rhône-Alpes, TEMPRA PECO, E.N.T.P.E., Vaulx en Velin, Francja	3 miesiące	2001/2002
Central European University (Fellowship Program), Department of Mathematics and Its Applications, Budapest, Węgry	1 miesiąc	2003
NATO Grant Award (Service des Bourses de Recherche Scientifique et Technique du Traite de l'Atlantique Nord (OTAN)); ENTPE, Vaulx en Velin (Lyon), Francja	3 miesiące	2005
Nagroda Alexandra von Humboldta, Technical University of Darmstadt, Niemcy (za osiągnięcia naukowe)	16 miesięcy	2010/2011, 2016

Pobyty krótkoterminowe

Hannover University, Hannover, Niemcy	1 tydzień	1988
Technical University, Braunschweig, Niemcy	1 tydzień	1989
Technical University, Munich, Niemcy	1 tydzień	1989
Technical University, Stuttgart, Niemcy	1 tydzień	1989
Technical University, Braunschweig, Niemcy	1 tydzień	1989
Technical University, Berlin, Niemcy	1 tydzień	1989
Technical University, Berlin, Niemcy	1 tydzień	1989
Kyoto University, Kyoto, Japonia	1 tydzień	1990
Hokkaido University, Sapporo, Japonia	1 tydzień	1990
Kyushu University, Fukouka, Japonia	1 tydzień	1990
Tokyo University, Tokyo, Japonia	1 tydzień	1990
Monash University, Melbourne, Australia	1 tydzień	1991
Tohoku University, Sendai, Japonia	1 tydzień	1991
Kyoto University, Kyoto, Japonia	1 tydzień	1991
Saitama University, Urawa, Japonia	1 tydzień	1992
Peking University, Peking, Chiny	1 tydzień	1992
Tohoku University, Sendai, Japonia	1 tydzień	1992
RCAST, Tokyo University, Tokyo, Japonia	1 tydzień	1992
Dong-A University, Pusan, Korea	1 tydzień	1992
University of the Philippines, Manila, Filipiny	1 tydzień	1992
National University of Singapore, Singapur	1 tydzień	1992
Technical University, Braunschweig, Niemcy	2 tygodnie	1993
University of Toronto, Toronto, Kanada	2 tygodnie	1993
Ecole Nationale des Travaux Publics de l'Etat, Francja	3 tygodnie	1995
Université Claude Bernard Lyon, Francja	1 tydzień	1995
Ecole Nationale des Travaux Publics de l'Etat, Francja	1 tydzień	1997
Université Claude Bernard Lyon, Francja	1 tydzień	1999
The University of Sheffield, Anglia	1 tydzień	1999
Vienna University of Technology, Austria	1 tydzień	2000
Universidad Central de Venezuela, Caracas, Wenezuela	2 tygodnie	2000
Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazylia	1 tydzień	2000
Central European University, Budapest, Węgry	2 tygodnie	2003
Institution de Fisica, Universidade de Sao Paulo, Brazylia	1 tydzień	2005
The Dnepropetrovsk National University, Department of Differential Equations	1 tydzień	2006
University La Coruna, Hiszpania	1 tydzień	2006
The Dnepropetrovsk National University, Ukraina	1 tydzień	2006
University of Puerto Rico, Puerto Rico	2 tygodnie	2006
Nanjing University of Aeronautics and Astronautics, Chiny	1 tydzień	2006
University in Kharkov, Ukraina	1 tydzień	2006
Mansoura University, Egipt	2 tygodnie	2006
Institute of Mechanical Eng., University of Lisbon, Portugalia	1 tydzień	2007
Russian Academy of Science, Rosja	1 tydzień	2007
Universidade de Porto, Portugalia	1 tydzień	2007
California State University, Cancun, Meksyk	1 tydzień	2007
Israel institute of technology, Izrael	1 tydzień	2008
Institute for Problems of Mechanical Engineering , Rosja	1 tydzień	2008
Institute of Chemical Physics of Russian Academy of Science	1 tydzień	2008
University of Iceland, Raykjavik, Islandia	1 tydzień	2008
University of Botswana, Gabarone, Botswana	1 tydzień	2008
Technical University of Crete, Chania, Grecja	1 tydzień	2009
University of Sapienza, Rzym, Włochy	1 tydzień	2009
Cinvestav, New Mexico, Meksyk	1 tydzień	2016

WYKŁADY PLENARNE/SEMINARIA

Wykłady plenarne

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)

Wykłady i seminaria za granicą (45-90 min)

Wymienione seminaria prowadzone były przez Kandydata w językach angielskim, niemieckim i rosyjskim, w większości na renomowanych uczelniach.

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.

Wykłady i seminaria w Polsce (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.

Wykłady zaproszone

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

Wykłady 5-cio godzinne zaproszone w ramach projektów UE

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

DOROBEK NAUKOWY – lista publikacji

Artykuły w czasopismach z IF (SUM. MNiSW$_{2020}$: 35 450)

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,** MNiSW$_{2020}$**:140)**

2. J. Awrejcewicz, 'Chaos in simple mechanical systems with friction', *Journal of Sound and Vibration*, 109 (1), 1986, 178-180. **(IF 1.572,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:100)**

7. J. Awrejcewicz, 'A route to chaos in a nonlinear oscillator with delay', *Acta Mechanica*, 77, 1989, 111-120. **(IF 1.192,** MNiSW$_{2020}$**:100)**

8. J. Awrejcewicz, 'Two kinds of evolution of strange attractors for the example of a particular non-linear oscillator', *ZAMP*, 40, 1989, 375-386. **(IF 1.213,** MNiSW$_{2020}$**:70)**

9. J. Awrejcewicz, J. Grabski, 'Chaos in a particular nonlinear oscillator', *Acta Mechanica* 79, 1989, 303-316. **(IF 1.192,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:70)**

13. J. Awrejcewicz, 'Bifurcation portrait of the human vocal cord oscillations', *Journal of Sound and Vibration*, 136 (1), 1990, 151-156. **(IF 1.572,** MNiSW$_{2020}$**:140)**

14. J. Awrejcewicz, 'Bifurcations of the oscillations of the vocal cords', *ZAMM*, 70 (4), 1990, 100-101. **(IF 0.742,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:100)**

17. J. Awrejcewicz, 'Some comments about stability', *Journal of Sound and Vibration,* 137 (1), 1990, 159-160. **(IF 1.572,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

19. J. Awrejcewicz, W.-D. Reinhardt, 'Quasiperiodicity, strange non-chaotic and chaotic attractors in a forced two degrees-of-freedom system', *ZAMP*, 41, 1990, 713-727. **(IF 1.213,** MNiSW$_{2020}$**:70)**

20. J. Awrejcewicz, 'Three routes to chaos in simple sinusoidally driven oscillators', *ZAMM*, 71 (2), 1991, 71-79. **(IF 0.742,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:100)**

22. J. Awrejcewicz, W.-D. Reinhardt, 'Observation of chaos in the nonautonomous system with two degrees of freedom', *ZAMM*, 71 (9), 1991, 357-360. **(IF 0.742,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

25. J. Awrejcewicz, 'Numerical analysis of the oscillations of human vocal cords', *Nonlinear Dynamics*, **2**, 1991, 35-52. **(IF 1.776,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:70)**

28. J. Awrejcewicz, 'Dynamics of the human vocal cords', *Journal of Theoretical and Applied Mechanics*, 29 (3-4), 1991, 557-577. **(IF 0.264,** MNiSW$_{2020}$**:40)**

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,** MNiSW$_{2020}$**:200)**

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,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:140)**

36. J. Awrejcewicz, 'Combined analytical and numerical analysis of oscillations in the string-type generator', *ZAMM*, 74 (9), 1994, 432-434. **(IF 0.742,** MNiSW$_{2020}$**:70)**

37. J. Awrejcewicz, 'Strange nonlinear behaviour governed by a set of four averaged amplitude equations', *Meccanica*, 31 (3), 1996, 347-361. **(IF 1.059,** MNiSW$_{2020}$**:100)**

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,** $MNiSW_{2020}$**:140)**

39. J. Awrejcewicz, C.-H. Lamarque, K.A. Broughan, 'Geometry and order of chaos', *International Journal of Bifurcation and Chaos*, 9(2), 1999, 327-347. **(IF 0.981,** $MNiSW_{2020}$**:70)**

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,** $MNiSW_{2020}$**:70)**

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,** $MNiSW_{2020}$**:70)**

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,** $MNiSW_{2020}$**:70)**

43. T. Antosik, J. Awrejcewicz, 'Numerical and experimental analysis of the biomechanics of three lumbar vertebrae', *Journal of Theoretical and Applied Mechanics*, 3 (37), 1999, 413-434. **(IF 0.264,** $MNiSW_{2020}$**:40)**

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,** $MNiSW_{2020}$**:140)**

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,** $MNiSW_{2020}$**:140)**

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,** $MNiSW_{2020}$**:100)**

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,** $MNiSW_{2020}$**:100)**

48. J. Awrejcewicz, I.V. Andrianov, 'Asymptotics for strongly nonlinear dynamical systems', *ZAMM,* 80, 2000, S265-S266. **(IF 0.742,** $MNiSW_{2020}$**:70)**

49. J. Awrejcewicz, V.A. Krysko, 'Period doubling bifurcation and chaos exhibited by an isotropic plate', *ZAMM,* 80, 2000, S267-S268. **(IF 0.742,** $MNiSW_{2020}$**:70)**

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,** $MNiSW_{2020}$**:140)**

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,** $MNiSW_{2020}$**:70)**

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,** $MNiSW_{2020}$**:140)**

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,** $MNiSW_{2020}$**:140)**

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,** $MNiSW_{2020}$**:200)**

55. J. Awrejcewicz, V.A. Krysko, 'Feigenbaum scenario exhibited by thin plate dynamics', *Nonlinear Dynamics*, 24, 2001, 373-398. **(IF 1.776,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:200)**

63. J. Awrejcewicz, M.L. Calvisi, 'Mechanical models of Chua's circuit', *International Journal of Bifurcation and Chaos*, 12 (4), 2002, 671-686. **(IF 0.981,** MNiSW$_{2020}$**:100)**

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,** MNiSW$_{2020}$**:140)**

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,** MNiSW$_{2020}$**:70)**

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,** MNiSW$_{2020}$**:200)**

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,** MNiSW$_{2020}$**:100)**

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Patenty

1. J. Awrejcewicz, K. Włodarczyk, P. Dura, Stent wewnątrznaczyniowy, *(PL* 197102 B1) - 20.07.2001.

DZIAŁALNOŚĆ DYDAKTYCZNA (ZAJĘCIA):

Dorobek dydaktyczny obejmuje 40 letnią działalność naukową głównie na macierzystej uczelni, ale również na Politechnice Warszawskiej (4 lata) oraz na Uniwersytecie Kalifornijskim w Berkeley, USA (1 rok).

Zajęcia wcześniejsze:

- Teoria drgań (Wydział Mechaniczny PŁ; wykłady, ćwiczenia i laboratorium)
- Podstawy automatyki (Wydział Mechaniczny PŁ; wykłady, ćwiczenia i laboratorium)
- Teoria mechanizmów i maszyn (Wydział Mechaniczny PŁ; wykłady, ćwiczenia i laboratorium)
- Automatyka i dynamika maszyn (Mechanika Stosowana na Wydziale Mechanicznym PŁ; wykłady, ćwiczenia i laboratorium)
- Drgania układów fizycznych (Wydział Fizyki Technicznej, Informatyki i Matematyki Stosowanej PŁ; wykłady i ćwiczenia)
- Dynamika i sterowanie (Studium doktoranckie „Dynamics of Material Systems" na Wydziale Mechanicznym PŁ; wykłady i seminaria)
- Układy dynamiczne i sterowanie (Studium Doktoranckie na Wydziale Mechanicznym Politechniki Łódzkiej; wykłady i seminaria)
- Modelowanie i sterowanie procesami dynamicznymi (Studium Doktoranckie na Wydziale Mechanicznym PŁ; wykłady i seminaria)
- Matematyczne metody mechaniki (Studium Doktoranckie na Wydziale Mechanicznym PŁ; wykłady i seminaria)
- Mechanical Engineering III (Wydział Mechaniczny Uniwersytetu Kalifornijskiego w Berkeley, USA; wykłady i ćwiczenia; semestr zimowy 2001)
- Advanced Dynamics (Wydział Inżynierii Mechanicznej Uniwersytetu Kalifornijskiego w Berkeley, USA; wykłady i ćwiczenia; semestr zimowy 2001)
- Mechanika techniczna (Transport na Wydziale Mechanicznym oraz Wydziale Elektrotechniki, Elektroniki, Informatyki i Automatyki PŁ; wykłady)
- Modelowanie systemów matematycznych (Matematyka na Wydziale Fizyki Technicznej, Informatyki i Matematyki Stosowanej; wykłady i ćwiczenia)
- Modelowanie i optymalizacja (Mechatronika na Międzynarodowym Wydziale Inżynierii PŁ; wykłady)
- Matematyczne Metody Mechaniki (Studium Doktoranckie na Wydziale Mechanicznym PŁ; wykłady i seminaria)
- Układy dynamiczne (Studium Doktoranckie na Wydziale Mechanicznym PŁ; wykłady i seminaria)
- Matematyczne modelowanie systemów (Studium Doktoranckie Mechaniki Politechniki Warszawskiej; wykłady; 2011-2013)
- Zaawansowana dynamika nieliniowa (Szkoła Doktorancka Mechaniki Politechniki Warszawskiej; wykłady; 2011-2013)

Zajęcia aktualne

- Drgania układów mechanicznych: zaawansowane problemy (Studium Doktoranckie „Mechaniki i Konstrukcji Maszyn" Politechniki Warszawskiej; wykłady; 2014-2015)
- Podstawy automatyki i mechatroniki (studia I stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Mechatronika (studia I stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Mikroautomatyka (studia I stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)

- Modelowanie i symulacja numeryczna w mechatronice (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Systemy i urządzenia mechatroniczne (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Dynamika układów mechatronicznych (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Optymalizacja sterowania (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Synteza układów sterowania (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Wybrane problemy inżynierii biomechanicznej (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Mechatronika techniczna (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Metody identyfikacji w mechatronice (studia II stopnia, Wydział Mechaniczny PŁ; koordynator przedmiotu)
- Matematyczne metody mechaniki (Studium Doktoranckie na Wydziale Mechanicznym PŁ; koordynator przedmiotu)
- Układy dynamiczne (Studium Doktoranckie na Wydziale Mechanicznym PŁ; koordynator przedmiotu)
- Mechanika analityczna (Studium Doktoranckie na Wydziale Mechanicznym PŁ; koordynator przedmiotu)
- Matematyczne metody mechaniki (wykład (30h); Studium Doktoranckie na Wydziale Mechanicznym PŁ; program POWER (2018/2019))
- Matematyczne metody mechaniki (wykład (20h); Interdyscyplinarna Szkoła Doktorska; Inżynieria Mechaniczna (2019/2020))

PROMOTOR/OPIEKUN/MENTOR

Promotor przewodów doktorskich

1. J. Mrozowski, *Drgania płyty prostokątnej poddanej działaniu sił aerodynamicznych,* Politechnika Łódzka, Wydział Mechaniczny, Łódź, 1991 (wspólnie z prof. M. Potier-Ferry).
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3. K. Tomczak, *Analiza i sterowanie dynamiką w układach mechanicznych z uderzeniami,* Politechnika Łódzka, Wydział Mechaniczny, Łódź, 1998.
4. T. Antosik, *Modelowanie oraz analiza statyczna i dynamiczna kręgosłupa ludzkiego z zastosowaniem implantów,* Politechnika Łódzka, Wydział Mechaniczny, Łódź, 1998.
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7. G. Kudra, *Analiza drgań bifurkacyjnych i chaotycznych w układzie potrójnego wahadła fizycznego z uderzeniami,* Politechnika Łódzka, Wydział Mechaniczny, Łódź, 2002.
8. P. Olejnik, *Analiza numeryczna i eksperymentalna drgań samowzbudnych regularnych i chaotycznych w układzie o dwóch stopniach swobody z tarciem,* Politechnika Łódzka, Wydział Mechaniczny, Łódź, 2002.
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Na podkreślenie zasługuje fakt obrony trzech prac magisterskich poza macierzystym wydziałem Kandydata, a w tym w języku niemieckim w Niemczech, jednej w języku francuskim we Francji, dwóch w języku angielskim w Łodzi w Centrum Kształcenia Międzynarodowego oraz trzech prac w Instytucie Matematyki Politechniki Łódzkiej.

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28. A. Zbilski, *Metoda analizy energochłonności technologicznych procesów transportu i manipulacji,* Politechnika Śląska, Gliwice, 2013.
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Recenzje habilitacji

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22. M. Sikoń, *Analiza ośrodka Cosseratów na podstawie atomowej budowy materii* Politechnika Krakowska, Kraków, 2013.
23. J. Tuśnio, *Problemy wykrywania, lokalizacji celu oraz sterowania obiektem latającym przy naprowadzaniu i ataku na elektroenergetyczną linię przesyłową wysokiego napięcia,* 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, *Algorytm optymalizacji topologicznej konstrukcji ciągłych z ograniczeniami zmęczeniowymi,* Politechnika Krakowska, Kraków, 2013.
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27. G. Kokot, *Wyznaczanie własności mechanicznych tkanek kostnych z zastosowaniem cyfrowej korelacji obrazu, nanoindentacji oraz symulacji numerycznych*, Politechnika Śląska, Gliwice, 2013.
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29. M. Trojnacki, *Modelowanie dynamiki mobilnych robotów kołowych,* Politechnika Śląska, Gliwice, 2014.
30. C. Rzymkowski, *Modelowanie i symulacja procesów udarowych w biomechanice,* Politechnika Warszawska, Warszawa, 2014.
31. M. Major, *Modelowanie zjawisk falowych w hipersprężystym materiale Zahorskiego,* Politechnika Częstochowska, Częstochowa, 2014.
32. A. Kulawik, *Modelowanie zjawisk obróbki cieplnej stali średniowęglowych,* Politechnika Częstochowska, Częstochowa, 2014.
33. W. Błażejewski, *Kompozytowe zbiorniki wysokociśnieniowe wzmocnione włóknami według wzorów mozaikowych,* Politechnika Wrocławska, Wrocław, 2014.
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36. J. Filipiak, *Wpływ stymulacji mechanicznej na właściwości regeneratu kostnego,* Politechnika Wrocławska, Wrocław, 2014.
37. P. Czubak, *Wybrane zagadnienia dynamiki przenośników wibracyjnych,* Akademia Górniczo-Hutnicza, Kraków, 2014.

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2. A. Dymarek, *Systemy wspomagania pasywnej i atywnej redukcji drgań układów mechanicznych metodami syntezy,* Politechnika Śląska, Gliwice, 2014.
3. K. Kosała, *Rozkład względem wartości szczególnych w badaniach procesów wibroakustycznych na przykładzie oceny i kształtowania właściwości akustycznych wybranych obiektów*, Akademia Górniczo-Hutnicza, Kraków, 2014.
4. W. Olędzki, *Stalowe sprężyny nieliniowe, oraz stalowe progresywne zawieszenia do pojazdów, zwłaszcza drogowych i terenowych,* Uniwersytet Warszawski, Warszawa, 2015.
5. M. Sawczak, *Nieinwazyjne techniki spektroskopowe w diagnostyce materiałów - zastosowanie w diagnostyce obiektów dziedzictwa kulturowego* (wybrane publikacje), Polska Akademia Nauk, Instytut Maszyn Przepływowych im. Szewalskiego, Zakład Fotofizyki, 2016.
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11. W. Rączka, *Systemy mechatroniczne z siłownikami SMA,* AGH, Kraków, 2016.
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13. I. Krzysztofik, *Problemy dynamiki i sterowania systemami obserwacji, skanowania i śledzenia na zasadzie mobilnej*, WAT, Warsaw, 2017.
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4. T. Dzitkowski, *Synthesis of driving systems regarding their required dynamical properties*', Silesian University of Technology, Gliwice, 2016, in Polish.

Recenzent (tytuł profesora)

1. Lesław Socha, Uniwersytet Kardynała Stefana Wyszyńskiego, Warszawa
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1. Jacek Przybylski, Politechnika Częstochowska, Częstochowa
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1. Maria Ekiel-Jeżewska, Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk, Warszawa
2. Jacek Przybylski, Politechnika Częstochowska, Częstochowa
3. Artur Ganczarski, Politechnika Krakowska, Kraków
4. Marek Gzik, Politechnika Śląska, Gliwice
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6. Wojciech Rdzanek, Akademia Górniczo-Hutnicza, Kraków
7. Piotr Kleczkowski, Akademia Górniczo-Hutnicza, Kraków
8. Jacek Pozorski, PAN, Warszawa
9. Jerzy Małachowski, WAT, Warszawa
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13. Andrzej Teter, Politechnika Lubelska, Lublin
14. Tomasz Barszcz, AGH, Kraków
15. Adam Niesłony, Politechnika Opolska, Opole
16. Mirosław Nowakowski, WAT, Warszawa
17. Piotr Wrzecioniarz, Politechnika Wrocławska, Wrocław
18. Piotr Przybyłowicz, Politechnika Warszawska, Warszawa
19. Elżbieta Pieczyska, FTR PAS, Warszawa
20. Przemysław Simiński, Instytut Techniczny Sił Powietrznych, Warszawa

Promotor doktorów honoris causa

1. Profesor Tsuneo SOMEYA (Tokyo University, Japonia) - 2.10.2003
2. Profesor Vadim A. KRYSKO (Saratov State University, Rosja) – 8.05.2013
3. Profesor Peter HAGEDORN (Darmstadt Technical University, Niemcy) – 12.12.2017

Recenzent doktoratów honoris causa

1. Profesor Ali H. Nayfeh (University of Virginia, Blacksburg, USA) – Uniwersytet Pomorski, 31.05.2004.
2. Profesor M. Kleiber (IPPT PAN) - Zachodniopomorski Uniwersytet Technologiczy, Szczecin, 09.03.2020.

Recenzent artykułów dla czasopism zagranicznych

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*
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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*
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46. *International Journal of Bifurcation and Chaos*
47. *International Journal of Computers and Structures*
48. *International Journal of Electrical Power and Energy Systems*
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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*
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71. *Journal of Dynamics of Machines*
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73. *Journal of Engineering in Medicine*
74. *Journal of Engineering Mathematics*
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76. *Journal of Mathematical Analysis and Application*
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78. *Journal of Mechanics of Materials and Structures*
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INNE RECENZJE/OPINIE

Recenzent grantów KBN, MNiSW, NCN i FNP

- Komitet Badań Naukowych (KBN) – **70** wniosków
- Ministerstwo Nauki i Szkolnictwa Wyższego – **40** wniosków
- Fundacja na rzecz Nauki Polskiej
  - Program VENTURES Programme
  - Program WELCOME Programme
  - Program POMOST - 2 proposals
- Narodowe Centrum Nauki (NCN) – **20** wniosków
- Austriacki Fundusz Nauki (FWF) – **1** wniosek
- Ministerstwo Nauki i Szkolnicwa Wyższego Federacji Rosyjskiej – **20** wniosków

Recenzent monografii i podręczników

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).R. Andrzejewski, 'Stability of motion of cars', WNT, Warsaw 1997 (ISBN 83-204-2220-5), in Polish

CZASOPISMA Z PRACAMI KANDYDATA

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.*

UDZIAŁ CZYNNY W KONFERENCJACH ZAGRANICZNYCH

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 Coruña, 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.

UDZIAŁ CZYNNY W KONFERENCJACH KRAJOWYCH

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.

PROJEKTY NAUKOWE (GRANTY)

1.

Tytuł projektu:	Analityczno-numeryczna metoda globalnej analizy dynamiki układów deterministycznych dyskretnych		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	7 T07A 017 10 (grant promotorski)		
Nr umowy:	PB 119/T07/96/10		
Data rozpoczęcia:	01.01.1996	Data zakończenia:	31.12.1997
Słowa kluczowe:	orbity okresowe i quasiokresowe, bifurkacje, chaos, stabilność		

2.

Tytuł projektu:	Analiza numeryczna, statyczna i dynamiczna modelu kręgosłupa ludzkiego		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Tomasz Antosik
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	8 T11F 014 13 (grant promotorski)		
Nr umowy:	540/T11/97/13		
Data rozpoczęcia:	01.07.1997	Data zakończenia:	31.12.1998
Słowa kluczowe:	MES, implant (stabilizator), stabilność		

3.

Tytuł projektu:	Analiza drgań bifurkacyjnych i chaotycznych w układzie potrójnego wahadła fizycznego z uderzeniami		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Grzegorz Kudra
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	8 T07A 009 21 (grant promotorski)		
Nr umowy:	0985/T07/2001/21		
Data rozpoczęcia:	01.08.2001	Data zakończenia:	31.07.2003
Słowa kluczowe:	drgania silnie nieliniowe, uderzenia, bifurkacje, chaos, metody numeryczne i analityczne		

4.

Tytuł projektu:	Analiza numeryczna i eksperymentalna drgań samowzbudnych regularnych i chaotycznych w układzie o dwóch stopniach swobody z tarciem		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Paweł Olejnik
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	4 T11F 005 22 (grant promotorski)		
Nr umowy:	1577/T11/2002/22		
Data rozpoczęcia:	01.03.2002	Data zakończenia:	28.02.2004
Słowa kluczowe:	metody numeryczne i analityczne, metody doświadczalne i pomiarowe, drgania samowzbudne, tarcie, dynamika chaotyczna		

5.

Tytuł projektu:	Badania eksperymentalne i analiza numeryczna prostych chaotycznych modeli mechanicznych		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Bogdan Supeł
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	5 T07A 043 25 (grant promotorski)		
Nr umowy:	0817/T07/2003/25		
Data rozpoczęcia:	19.09.2003	Data zakończenia:	18.06.2005
Słowa kluczowe:	drgania silnie nieliniowe, uderzenia, bifurkacje, chaos, metody eksperymentalne numeryczne i analityczne		

6.

Tytuł projektu:	Modelowanie oraz analiza statyczna i dynamiczna klatki piersiowej z zastosowaniem metalowych implantów		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Bartosz Łuczak
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	4 T07A 016 27 (grant promotorski)		
Nr umowy:	1466/T07/2004/27		
Data rozpoczęcia:	05.11.2004	Data zakończenia:	31.12.2006
Słowa kluczowe:	klatka piersiowa, metoda elementów skończonych		

7.

Tytuł projektu:	Modelowanie i analiza układów silnie nieliniowych z tarciem i uderzeniami przy użyciu nowych metod matematyczno-numerycznych		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	4 T07A 031 28		
Nr umowy:	1437/T07/2005/28		
Data rozpoczęcia:	29.11.2005	Data zakończenia:	28.11.2008
Słowa kluczowe:	uderzenie, tarcie, bifurkacje, chaos		

8.

Tytuł projektu:	Modelowanie dynamiki układów kontaktowych z uwzględnieniem wytwarzania ciepła i zużycia poprzez tarcie		
Kierownik:	dr hab. inż. Yuriy Pyryev (prof. Awrejcewicz brał czynny udział w realizacji tego grantu)		
Finansowanie:	Komitet Badań Naukowych		
Nr projektu:	4 T07C 044 29		
Nr umowy:	1684/T07/2005/29		
Data rozpoczęcia:	12.12.2005	Data zakończenia:	11.12.2008
Słowa kluczowe:	kontakt, tarcie, zużycie, wytwarzanie ciepła, uderzenie		

9.

Tytuł projektu:	Metody analityczne przewidywania i analizy ruchów chaotycznych w układach dynamicznych o skończonej liczbie stopni swobody		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Dariusz Sendkowski
Finansowanie:	Ministerstwo Edukacji i Nauki		
Nr projektu:	4 T07A 034 29 (grant promotorski)		
Nr umowy:	1641/T07/2005/29		
Data rozpoczęcia:	13.12.2005	Data zakończenia:	12.12.2007
Słowa kluczowe:	układy hamiltonowskie, geometrodynamika, chaos, nieliniowa dynamika, geometria Riemanna		

10.

Tytuł projektu:	Modelowanie i badania doświadczalne procesów silnie nieliniowych w układach mechatronicznych z tarciem, uderzeniami, histerezą i zjawiskami tribologicznymi		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Ministerstwo Nauki i Szkolnictwa Wyższego		
Nr projektu:	N N504 004038		
Nr umowy:	0040/B/T02/2010/38		
Data rozpoczęcia:	01.03.2010	Data zakończenia:	28.02.2013
Słowa kluczowe:	układy dyskretne, tarcie, uderzenia, histereza, metody numeryczno-analityczne		

11.

Tytuł projektu:	Modelowanie i analiza dynamiki i procesów tribologicznych w układzie mechatronicznym ze sprzęgłem ciernym (grant promotorski)		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Dariusz Grzelczyk
Finansowanie:	Narodowe Centrum Nauki		
Nr projektu:	N N501 191838		
Nr umowy:	1918/B/T02/2010/38		
Data rozpoczęcia:	02.03.2010	Data zakończenia:	31.03.2011
Słowa kluczowe:	sprzęgło cierne, tarcie, zużycie, procesy tribologiczne		

12.

Tytuł projektu:	Mathematical modeling, simulation and control of nonlinear dynamic biodynamic processess and mechatronic experimental investigations		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Fundacja na rzecz Nauki Polskiej		
Nr projektu:	Program „MISTRZ”		
Data rozpoczęcia:	02.03.2010	Data zakończenia:	31.03.2011
Słowa kluczowe:	dynamika, mechanika, procesy biodynamiczne, modelowanie matematyczne		

13.

Tytuł projektu:	Dynamika nieliniowa układu nieautonomicznego wahadeł fizycznych połączonych przegubami typu Cardana-Hooke'a (grant promotorski)		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Michał Ludwicki
Finansowanie:	Ministerstwo Nauki i Szkolnictwa Wyższego		
Nr projektu:	N N519 573738		
Nr umowy:	5737/B/T02/2010/38		
Data rozpoczęcia:	14.04.2010	Data zakończenia:	30.09.2011
Słowa kluczowe:	Kąty Eulera, chaos, bifurkacje, dynamika nieliniowa, ciało sztywne, przegub uniwersalny		

14.

Tytuł projektu:	Modelowanie matematyczne, analiza numeryczno-analityczna i sterowanie układów hybrydowych mechanicznych dyskretnych i ciągłych z uwzględnieniem zjawisk kontaktowych w przestrzeni trójwymiarowej		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Narodowe Centrum Nauki		
Nr projektu:	Program „MAESTRO 2"		
Nr umowy:	UMO-2012/04/A/ST8/00738		
Data rozpoczęcia:	08.10.2012	Data zakończenia:	07.10.2016
Słowa kluczowe:	nonlinear dynamics, continuous and lumped systems contact problems, friction, impacts, bifurcation, chaos		

15.

Tytuł projektu:	Modelowanie, analiza kinematyczno-dynamiczna i symulacyjna prototypu egzoszkieletu do rehabilitacji osób z niepełnosprawnością ruchową kończyn dolnych		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Narodowe Centrum Nauki		
Nr projektu:	Program „OPUS 9"		
Nr umowy:	UMO-2015/17/B/ST8/01700		
Data rozpoczęcia:	2016-02-12	Data zakończenia:	2019-02-11
Słowa kluczowe:	chód, egzoszkielet, modelowanie mięśni, kończyny dolne		

16.

Tytuł projektu:	Modelowanie i dynamika nieliniowa układów magneto-elektro-mechanicznych		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Narodowe Centrum Nauki		
Nr projektu:	Program „OPUS 14"		
Nr umowy:	UMO-2017/27/B/ST8/01330		
Data rozpoczęcia:	2018-08-31	Data zakończenia:	2021-08-30
Słowa kluczowe:	pole magneto-elektro-mechaniczne, drgania nieliniowe, modelowanie matematyczne, bifurkacje, chaos		

17.

Tytuł projektu:	Opracowanie modeli MES do analizy biomechanicznej stopy ze zniekształceniem koślawym palucha (hallux valgus) podczas chodu (grant promotorski)		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Zhang Yan
Finansowanie:	Ministerstwo Nauki i Szkolnictwa Wyższego		
Nr projektu:	Preludium 14		
Nr umowy:	2017/27/N/ST8/00148		
Data rozpoczęcia:	2018	Data zakończenia:	2018
Słowa kluczowe:			

18.

Tytuł projektu:	Modelowanie matematyczne dynamiki nieliniowej elementów czujników nanoelektromechanicznych w postaci elastycznych płyt i powłok w obecności szumu i pola temperaturowego (grant promotorski)		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz	Doktorant:	mgr inż. Vadim Krysko
Finansowanie:	Ministerstwo Nauki i Szkolnictwa Wyższego		
Nr projektu:	Preludium 16		
Nr umowy:	2018/31/N/ST8/00707		
Data rozpoczęcia:	2019	Data zakończenia:	2021
Słowa kluczowe:			

19.

Tytuł projektu:	Modelowanie i dynamika nieliniowa układów magneto-elektro-mechanicznych		
Kierownik:	prof. dr hab. inż. Jan Awrejcewicz		
Finansowanie:	Narodowe Centrum Nauki		
Nr projektu:	Program „OPUS 18”		
Nr umowy:	UMO-2019/35/B/ST8/00980		
Data rozpoczęcia:	02-10-2020	Data zakończenia:	01-10-2024
Słowa kluczowe:	pole magneto-elektro-mechaniczne, drgania nieliniowe, modelowanie matematyczne, bifurkacje, chaos		

REDAKTOR/CZŁONEK KOMITETÓW NAUKOWYCH I/LUB REDAKCYJNYCH CZASOPISM

Główny redaktor:

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)

Członek komitetów redakcyjnych:

- czasopisma z 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 Modern Nonlinear Theory and Application* **(IF 0.76)**
8. *International Journal of Nonlinear Sciences and Numerical Simulation* **(IF 1.033)**
9. *Journal of Engineering* **(IF 0.79)**
10. *Journal of Intelligent Information Management* **(IF 0.89)**
11. *Journal of Medical Imaging and Health Informatics* **(IF 0.621)**
12. *Journal of Multi-bodyDynamics* (-2017) **(IF 1.146)**
13. *Journal of Sound and Vibration* (2016-) **(IF 3.123)**
14. *Latin American Journal of Solids and Structures* (Associte Editor) **(IF 1.289)**
15. *Mathematical Problems in Engineering* **(IF 1.179)**
16. *Nonlinear Analysis: Real World Applications* (2009-2018) **(IF 2.085)**
17. *Nonlinear Dynamics: An International Journal of Nonlinear Dynamics and Chaos in Engineering Systems* (2006-2009) **(IF 4.604)**
18. *Symmetry* **(IF 2.143)**
19. *World Journal of Mechanics* **(IF 0.77)**

- pozostałe czasopisma

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*

ORGANIZACJA KONFERENCJI

Przewodniczenie komitetom organizacyjnym i naukowym

1. Międzynarodowe konferencje naukowe pt. **"Układy Dynamiczne – Teoria i Zastosowania" (Dynamical Systems – Theory and Applications)**, odbywające się cyklicznie w Łodzi co dwa lata, poczynając od roku 1992.

- I KONFERENCJA, Łódź, 9 grudnia 1992
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_1_pl.html)
  30 uczestników, 1 kraj, 25 referatów, 1 wykład plenarny

- II KONFERENCJA, Łódź, 6 grudnia 1994
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_2_pl.html)
  35 uczestników, 1 kraj, 24 referaty, 3 wykłady plenarne

- III KONFERENCJA, Łódź, 6 grudnia 1995
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_3_pl.html)
  55 uczestników, 3 kraje, 41 referatów, 3 wykłady plenarne

- IV KONFERENCJA, Łódź, 8-9 grudnia 1997
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_4_pl.html)
  60 uczestników, 8 krajów, 49 referatów, 3 wykłady plenarne

- V KONFERENCJA, Łódź, 6-8 grudnia 1999
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_5_pl.html)
  70 uczestników, 8 krajów, 63 referaty, 5 wykładów plenarnych

- VI KONFERENCJA, Łódź, 10-12 Grudnia 2001
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_6_pl.html)
  53 uczestników, 9 krajów, 42 referaty, 6 wykładów plenarnych

- VII KONFERENCJA, Łódź, 8-11 Grudnia 2003
  (http://212.191.87.54:1616/k16/polski/konferencje/konf_7_pl.html)
  100 uczestników, 20 krajów, 87 referatów, 6 wykładów plenarnych

- VIII KONFERENCJA, Łódź, 12-15 Grudnia 2005
  (http://212.191.87.54:1616/k16/english/konferencje_en/en_confer8.htm)
  100 uczestników, 18 krajów, 96 referatów, 5 wykładów plenarnych

- IX KONFERENCJA, Łódź, 17-20 Grudnia 2007
  (http://212.191.87.54:1616/k16/english/konferencje_en/en_confer9.htm)
  118 uczestników, 19 krajów, 108 referaty, 4 wykłady plenarne

- X KONFERENCJA, Łódź, 7-10 Grudnia 2009
  117 uczestników, 26 krajów, 111 referaty, 8 wykładów plenarnych

- XI KONFERENCJA, Łódź, 5-8 Grudnia 2011
  (http://dys-ta-2011.appspot.com/)
  120 uczestników, 22 krajów, 104 referaty, 8 wykładów plenarnych

- XII KONFERENCJA, Łódź, 2-5 Grudnia 2013
  123 uczestników, 21 krajów, 111 referatów, 3 wykłady plenarne

- XIII KONFERENCJA, Łódź, 7-10 Grudnia 2015
  170 uczestników, 32 kraje, 289 referatów, 8 wykładów plenarnych

- XIV KONFERENCJA, Łódź, 11-14 Grudnia 2017
  180 uczestników, 32 kraje, 370 referatów, 6 wykładów plenarnych

- XV KONFERENCJA, Łódź, 2-5 Grudnia 2019
  180 uczestników, 35 kraje, 360 referatów, 8 wykładów plenarnych

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

- 16–18 maja 2012, Warszawa (http://www.icm-iia.eu/)
  45 uczestników, 2 kraje, 46 referatów, 3 wykłady plenarne

- 12-14 maja 2014, Łódź (http://www.icm-iia.eu/)
  46 czestników, 2 kraje, 44 referaty, 4 wykłady plenarne

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

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

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

Organizacją konferencji zajęły się dwie jednostki Politechniki Łódzkiej: Katedra Automatyki, Biomechaniki i Mechatroniki oraz Wydział Organizacji i Zarządzania.

1-3 września 2014 w Łodzi
147 uczestników, 8 krajów, 118 referatów, 2 wykłady plenarne

4. **"Biomechanika – modelowanie, obliczenia numeryczne, badania doświadczalne i zastosowania biomedyczne"**

(http://212.191.87.54:1616/k16/polski/konferencje/lodz_98_pl.html)

7-8 grudnia 1998, Łódź
53 uczestników, 4 kraje, 32 referaty, 3 wykłady plenarne

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 września 1996, Dobieszków/Łódź

60 uczestników, 15 krajów, 50 referatów, 8 wykładów plenarnych

Organizator/przewodniczący sesji

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.

Członek komitetów naukowych

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. 10th International Conference on Wave Mechanics and Vibrations (WMVC), July 4-6, 2022, Lisbon, Portugal.
218. XXII International Conference on Mechanics in Medicine and Biology, June 5-8, 2022, Moscow, Russia.

Wybrane publikacje w prasie i internecie dotyczące osiągnięć Kandydata:

- Nagroda "FUNDACJI HUMBOLDTA"
  - 'O pokorze dobrego klerka', PAR 7-8, 2011
  - 'Nagroda Fundacji Humboldta dla prof. Jana Awrejcewicza', PAR 6, 2011
  - 'Nagroda niemieckich naukowców dla łódzkiego profesora', Gazeta Wyborcza, 28.02.2011
  - 'Docenili profesora z Łodzi', Dziennik Łódzki, 22.02.2011

- Wahadło potrójne
  - 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

- Nagroda "MISTRZ"
  - 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

- Nagroda „ZŁOTA LAMPA”
  - 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

PUBLIKACJE BIOGRAFII KANDYDATA (PRZYKŁADY):

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)
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