CONFERENCE PROGRAM

ICMAE 2018

The 9th International Conference on Mechanical and

Aerospace Engineering

With workshops of

ICPAM 2018

International Conference on Pure and Applied Mathematics

July 10-13 | Eotvos Lorand University | Hungary

Conference Venue

Faculty of Informatics, Eotvos Lorand University



Address: ELTE Faculty of Informatics, Lagymanyosi Campus, Eotvos Lorand University, 1/C. Pazmany Peter setany, Budapest-1117

Welcome Address

It is our great pleasure to invite you to attend the The 9th International Conference on Mechanical and Aerospace Engineering(ICMAE), with workshops of 2018 the 7th International Conference on Pure and Applied Mathematics(ICPAM), to be held from July 10-13, 2018, in Faculty of Informatics, Eötvös Loránd University, Budapest, Hungary.

ICMAE has been one of the main events in Europe region with a focus on Aerospace Mechatronics and Avionics Systems, Aerospace Communications, Mechanical Engineering in Aerospace, Electronic Systems, Aerospace Engineering and Management, Pure and Applied Mathematics, etc. For near a decade, the conference has attracted world class researchers from both academic and engineering to share their state-of-the-art results in relative fields. The conference consists of Keynotes, plenary and invited speeches from experts, paper presentations, ELTE academic visit, tutorials and symposiums.

After several rounds of review procedure, the program committee accepted those abstracts to be presented on conference, and papers to be published in conference proceedings. We wish to express our sincere appreciation to all the individulas who have contributed to ICMAE 2018 conference in various ways, in the program committee for their thorough review of all the submissions, which is vital to the success of the conference, and also to the members in the organizing committee and the volunteers who had delicated their time and efforts in planning, promoting, organizing and helping the conference. Special thanks are extended to our Local Chair-Prof. Kerek Ágnes, for his contribution, and great support from Faculty of Informatics, Eötvös Loránd University. Without their support, this conference cannot be prepared so smoothly and successfully.

This conference program is highlighted by 3 Keynote Speakers: Prof. Anh Dung NGO, Ecole de technologie superieure (U. du Quebec), Canada; Prof. Ian McAndrew, Embry Riddle Aeronautical University, UK; Prof. Dashnor Hoxha, Orleans University, France; 4 Plenary Speakers: Prof. Simon Barrans, University of Huddersfield, United Kingdom; Prof. Hamid Bahai, Brunel University, UK; Prof. Necdet Bildik, Celal Bayar University, Turkey; Prof. Ruggero Maria Santilli, Institute for Basic Research, USA.

Budapest is paradise for explorers. Keep your senses primed and you'll discover something wonderful at every turn. Budapest's beauty is not all God given; humankind has played a role in shaping this pretty face too. Architecturally, the city is a treasure trove, with enough baroque, neoclassical, Eclectic and art nouveau buildings to satisfy everyone. Overall, though, Budapest has a *fin de siècle* feel to it, for it was then, during the capital's 'golden age' in the late 19th century, that most of what you see today was built.

We wish you a successful conference and enjoyable experience in Budapest!

Conference Organizing Committees Budapest, Hungary

Conference Committees

Conference Chairs	Prof. Dashnor Hoxha, Orleans University, France Prof. Ramesh K. Agarwal, Washington University in St. Louis, USA Prof. Ian McAndrew, Embry Riddle Aeronautical University, UK
Local Chair	Prof. Kerek Ágnes, Eötvös Lorand University, Hungary
Technical Program Co-chairs	Prof. ANH DUNG NGO, Ecole De Technologie Superieur (U. of Quebec), Canada Prof. Necdet Bildik, Celal Bayar University, Turkey Prof Huafeng Ding, China University of Geosciences (Wuhan), China Prof. Musilova Michaela, the Slovak Organisation for Space Activities, Slovakia Prof. Huisheng Shi, Tongji University, China
Steering Co-chairs	Prof. Simon Barrans, University of Huddersfield, United Kingdom Prof. Eldad Avital, Queen Mary University of London, United Kingdom Prof. Hamid Bahai, Brunel University, UK Prof. Ibrahim Ozkol, Istanbul Technical University, Turkey Prof. Katarina MONKOVA, Technical University in Kosice, Slovakia
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Prof. Nam Seo Goo, Konkuk University, Korea Prof. Tomasz Kopecki, Politechnika Rzeszowska, Poland Prof. Antonin Pistek, Institute of Aerospace Engineering, Czech Republic Prof. Zheng Hong Zhu, York University, Canada Prof. TAHİR HİKMET KARAKOÇ, Anadolu University, Turkey Prof. Ferhan Kuyucak Şengur, Anadolu University, Turkey Prof. Mahmut AdilCYÜKSELEN, Istanbul Technical University, Turkey Prof. Josef Klement, Brno University of Technology, Czech Republic Prof. Jae Wook Kim, University of Southampton, UK Prof. Lucia Knapci kova, Technical University of Košice, Slovakia Prof. Jozef Černecký, Technical University of Zvolen, Slovakia Prof. Tomas Kliment, Slovak Legal Metrology, Slovakia Prof. Vsevolod V. Koryanov, Bauman Moscow State Technical University, Russia Prof. J. H. Chen, National Taiwan Ocean University, Taiwan Prof. Ramazan Çitak, Gazi University, Turkey Prof. Woradej Manosroi, Chiang Mai University, Thailand Prof. Rosario Pecora, Universita degli Studi di Napoli "Federico II", Italy Prof. Jung-Chou Hung, Feng Chia University, Taiwan Prof. Mehmet Metin Yavuz, Middle East Technical University, Turkey Prof. Anshuman Srivastava, Mechanical Engineering Dept, SIET Allahabad, India. Prof. Mikio HORIE, Tokyo Institute of Technology, Japan Prof. Yuexi Xiong, Beijing University of Aeronautics and Astronautics, China Prof. Satuluri Srikiran, Lendi Institute of Engineering & Technology, India Prof. Maatouk Khoukhi, United Arab Emirates University, UAE Prof. Jose Alejandro POSADA-MONTOYA, Pascual Bravo University Institution, Colombia Prof. Qin Xuguo, Beijing Institute of Space Long March Vehicle, China Prof. Espen Oland, The Arctic University of Norway, Norway Prof. Mehmet Serif Kavsaoğlu, Fatih Sultan Mehmet Vakif University, Turkey Prof. Michael A. Saliba, University of Malta, Malta Prof. Yongdae Kim, Kyungil University, South Korea Prof. Cem Tahsin Yücer, National Defense University Air Force NCO Higher Vocational School, Turkey Prof. Zhang Jianrun, Southeast University, China Prof. Fedir Gagauz, National Aerospace University "KhAI", Ukraine Prof. Ruxandra Mihaela Botez, École de technologie supérieure, Canada Prof. Dimitris Drikakis, University of Strathclyde, UK Prof. Fatih Karpat, Uludag University, Turkey Prof. Zhaoheng Liu, Université du Québec, Canada Prof. Kai Peng, Northwestern Polytechnical University, China Prof. Ming Zhu, Beihang University, China Prof. T. Rajasanthosh Kumar, Ace Engineering College, India Prof. Chen Yu-chun, Northwestern Polytechnical University, China Prof. Marc Thomas, Université du Québec, Canada Prof. Sun Yuwei, Beijing Institute of Spacecraft Environment Engineering, China Prof. LIU Pei-jin, Northwestern Polytechnical University, China Prof. Dumitrache Alexandru, "POLITEHNICA" University of Bucharest, Romania Prof. Mohamed DAMIR, Alexandria University, Egypt

Prof. Haydar Al-Ethari, University of Babylon, Iraq

Program at a Glance

July 10, 2018 Tuesday		
		Room# 0-820
10:00-17:00	Room#0-820	Registration & Conference Kits Collection
14:30-15:00		ELTE Campus Visit
		Room
15:25-15:30	Tutorial Introduction	Dr. Jurij Sidor, Faculty of Informatics, ELTE, Hungary
15:30-15:45	ELTE Tutorial	Materials and Mechanical Engineering
		July 11, 2018 Wednesday
		Room#0-821
09:00-09:05	Opening Remarks	Prof. Ian McAndrew, Embry Riddle Aeronautical University, UK
09:05-09:20	Welcome Address	Prof. Zoltán HORVÁTH, Dean for Faculty of Informatics, ELTE, Hungary
09:20-10:05	Keynote Speech-I	"Experimental Investigation of Operational Conditions Effects on Axial Fatigue
		behavior of Carbon/Epoxy Plain Weave Laminates Containing Artificial Flaw"
		Prof. Anh Dung Ngo, École de technologie supérieure, Québec, Canada
10:05-10:45	Group Photo& Coffee	
10:45-11:30	Keynote Speech-II	"Is the Sky above Us Safe and How has this Been Influenced by the Past and
		Present Policies?"
		Prof. Ian McAndrew, Embry Riddle Aeronautical University, UK
11:30-12:00	Plenary Speech-I	"The Neutron Synthesis from the Hydrogen and its Application for National
		Security"
12.00 12.00	Luciala Davida	Prof. Ruggero Maria Santilli, Institute for Basic Research, USA
12:00-13:00	Lunch Break	
42.00 45.20	Carrier A 4	Room# 2-502
13:00-15:30	Session A-1	Digital Manufacturing System and Weaponry Manufacturing
15:30-15:45	Coffee Break	
15:45-18:30	Session A-2	Power Machinery System and Analysis
42.00 45.20	Cassian P.4	Room # 2-712
13:00-15:30	Session B-1	Control Science and Mechanical Engineering
15:30-15:45	Coffee Break	
15:45-18:30	Session B-2	Engine Design and Performance Assessment
12.00 15.20	Cassian C 1	Room # 0-820
13:00-15:30	Session C-1	Electronic Systems and Communication Technology in Aerospace
15:30-15:45	Coffee Break	Meterials Original Englandian
15:45-18:30	Session C-2	Materials Science and Engineering
12.00 44 45	Company of the second	Room # 0-818
13:00-14:15	Symposium-1	Approximation Theory
14:15-14:30	Free Talk	
14:30-15:30	Symposium-2	
15:30-15:45	Coffee Break	
15:45-18:30	Symposium- 3 /	Special Functions, Mathematical Modeling and Physical Mathematics

Conference Program

	Session D-2	Mathematical Modeling and Physical Mathematics
		Room# 1-820
13:00-15:30	Tutotial- 1	Isomathematics
15:30-15:45	Coffee Break	
15:45-18:30	Tutotial- 1	Isomathematics
18:30-20:00	Dinner	

		July 12, 2018 Thursday
		Room # 0-821
09:00-09:05	Opening Remarks	Prof. Dashnor Hoxha, Orleans University, France
09:05-09:50	Keynote Speech-III	"Effective Thermal Properties of Heterogeneous Materials from far Field
		Contactless Temperatures Measurements"
		Prof. Dashnor Hoxha, Orleans University, France
09:50-10:20	Plenary Speech-II	"Understanding the Behaviour of V-band Clamps"
		Prof. Simon Barrans, University of Huddersfield, UK
10:20-10:50	Coffee Break & Group	Photo
10:50-11:20	Plenary Speech-III	"On the Solution of KdV-like Equations by the Optimal Perturbation
		Iteration Technique"
		Prof. Necdet Bildik, Celal Bayar University, Turkey
11:20-11:50	Plenary Speech-IV	<i>un</i>
		Prof. Hamid Bahai, Brunel University, UK
12:00-13:00	Lunch	
		Room # 2-502
13:00-15:30	Session A-3	Power System Modeling and Analysis in Aerospace
15:30-15:45	Coffee Break	
15:45-18:30	Session A-4	Power Electronics Technology and Communication Engineering
		Room # 2-712
13:00-15:30	Session B-3	Fluid Mechanics and Applications
15:30-15:45	Coffee Break	
15:45-18:00	Session B-4	Aircraft Structure Design and Optimization
		Room # 0-820
13:00-15:30	Session C-3	Aircraft Design and Spacecraft
15:30-15:45	Coffee Break	
15:45-17:00	Session C-4	Image Processing and Application
		Room # 1-820
13:00-15:30	Session D-1	Mathematical Theory and Calculation
15:30-15:45	Coffee Break	
15:45-18:30	Tutorial- 2	Isomechanics & Isochemistry
		Room # 0-818
13:00-15:30	Tutorial- 3	Isomechanics
15:30-15:45	Coffee Break	
15:45-18:30	Tutorial- 3	Isomechanics

18:30-20:00	Dinner	
July 13, 2018 Friday		
09:00-17:00	Optional One-day City Visit	

Keynote Speakers



Speech I: Jul. 11(Wed.) 9:20-10:05 Venue: Room 0-821

"Experimental Investigation of Operational Conditions Effects on Axial Fatigue Behaviour of Carbon/Epoxy Plain Weave Laminates Containing Artificial Flaw "

Prof. Anh Dung NGO Ecole de technologie superieure (U. du Quebec), Canada

Abstract of Speech

Aeronautical composite structures having manufactured flaws usually operate in harsh conditions. This work aimed at characterizing the behavior of quasi-isotropic plain weave carbon/epoxy laminates containing artificial flaw under axial fatigue loading at various conditions such as hygrothermal, frequency and stress ratio. Dry and wet coupons were tested under load-controlled fluctuated cyclic loading with two stress ratios of R = 0.1 and R = -0.1 and two load frequencies of 7 Hz and 15Hz at room temperature and 82oC under different stress levels. Delamination threshold onset were determined based on the allowable stiffness change as failure criterion that was verified using ultrasonic imaging (C-Scan) technique, at each testing condition. At first, under tensile cyclic loading at 7Hz the experimental results showed that individually, moisture reduced the fatigue life of the studied material more than temperature did whereas their combination was much more damaging. On the frequency of most environmental conditions, except for two conditions: (1) room temperature and dry at high stress level, (2) 82°C and wet at low stress level. Finally, partially reversed tension-compression cyclic loading tests showed that this loading mode was more damaging than the tension-tension one due to the complex interaction and evolution of the compressive and tensile types of damage.

Anh Dung NGO

BIO: About Prof. Anh Dung NGO: B.Sc. A in Mechanical Engineering (É. Polytechnique, Canada), M.Sc. in Wood technology (U. Laval, Canada), Ph.D. in Mechanical Engineering (Concordia U., Canada). Professor NGO spent 18 years in industry as engineer and in governmental agency first as engineer and later as chief officer of the Occupation Safety Division at the Prevention Branch of the Quebec Occupational Health and Safety Commission before joining the university in 1991. He was the Chairman of the Mechanical Engineering Department from 1999 to 2004. He is the founder of two research groups, one in Occupational Safety and one in Composite Materials. He is also the editor of the Proceeding of the EIGHTH JOINT CANADA-JAPAN WORKSHOP ON COMPOSITES and author of sixty scientific papers and technical reports on Composites Materials and Occupational Safety.



Speech II: Jul. 11(Wed.) 10:45-11:30 Venue: Room 0-821

"Is the Sky above Us Safe and How has this been Influenced by the Past and Present Policies?"

Prof. Ian McAndrew Embry Riddle Aeronautical University, UK

Abstract of Speech

There have been many instances of aircraft collisions in the sky and these have been for a variety of reasons and causes. Technology has been used to address these concerns, yet these have not all been successful for other reasons. This presentation reviews the historical and technical reasons what and why has happened to produce this current situation and how the safety may not be as high as assumed. It also introduces the concerns that Unmanned Ariel Vehicles add and how these are being reviewed to minimize. Furthermore, the risk analysis of these implications due to Security and Cyber security.

lan McAndrew

Ph.D. in Mechanical Engineering ; M.Sc. in Manufacturing MA in Education Management ; Pg.D. in Education Training; B.A. (Hons) in Mechanical Engineering; B.A. in Production Engineering Member of the Institute of Electrical Engineers. Dr McAndrew spent 12 years in industry as a designer before entering academia. He has over 20 years of teaching experience in the UK, Europe, Middle East and Far East. He has supervised many PhD students and published extensively for over 20 years. He is the author of a book and Editor of a new Journal being produced with a focus on Aviation. Currently he is the Department Chair of Graduate Studies in the College of Aeronautics Worldwide at Embry Riddle Aeronautical University. His research interests are in Aerodynamics and Effective Education, which he has published extensively. He has presented at many Conferences and believes these are critical research meetings for those that are new to research and the experienced to mentor the next generation.



Speech III: Jul. 12(Thu.) 9:05-9:50 Venue: Room 0-821

"Effective thermal properties of heterogeneous materials from far field contactless temperatures measurements "

Prof. Dashnor Hoxha Orleans University, France

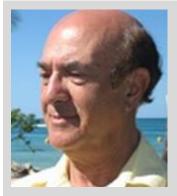
Abstract of Speech

Classical methods for determination of thermal properties of materials could be revealed inappropriate when used for macroscopic heterogeneous materials. This is because these parameters are typically obtained using measures on small volumes which could be smaller then VER of a heterogeneous material. To overcome this drawback a method, using far field temperature measurements induced by a laser spot on a heterogeneous material, is developed. Theoretical considerations and inverse approach used are explained in details before a validation of the method and its use in various heterogeneous materials as case studies.

Dashnor Hoxha

About Prof. Dashnor Hoxha: After obtained an engineer degree from Polytechnic University of Tirana and a Bachelor in Physics form Natural Science Faculty of Tirana, Albanie in 1991, I was awarded Mc. S and Ph. D in Geomechanics Hydrosystems and Structures from National Polytechnic Institut of Lorraine (INPL) France in 1998. I worked for ten years in the research and developing industry before joining the University of Orleans as Head of Sustainables Constructions Division in 2007. I work actually in the Laboratory of Pluridisiplinary Research in Engineering Systemes, Mechanics and Energy (PRISME) and I teach as Professor in Polytechnic School of Orleans. I published more than 34 papers in refereed international journals and 45 papers in conferences and 4 book chapiters and I have been involved in many international conferences as Technical Chair and tutorial presenter.

Plenary Speakers



Speech I: Jul. 11(Wed.) 11:30-12:00 Venue: Room 0-821

"The Neutron Synthesis from the Hydrogen and its Application for National Security"

Prof. Ruggero Maria Santilli Institute for Basic Research, USA

Abstract of Speech

The synthesis of the neutron from the hydrogen atom in the core of stars is the most fundamental nuclear synthesis in nature. Its theoretical understanding has requested decades of research in mathematics, physics and chemistry because the rest energy of the neutron is "bigger" than the sum of the rest energies of the proton and of the electron, under which condition 20th century mathematics and related theories are no longer effective due to their sole characterization of isolated point-particles in vacuum, while the compression of the electron within the hyperdense proton requires the representation of particles with their actual size. In the early 1980s, when at the Department of Mathematics of Harvard University under DOE support, the author constructed a covering of 20th century applied mathematics based on the isoassociative product A*B = AT*B of all possible quantities A, B, with ensuing isotopic lifting of numeric fields into isofields with isounit $I^* = 1/T^* > 0$, and necessary generalization of the Newton-Leibnitz differential calculus into a form defined over the volume represented by the isounit I* based on the isodifferential d*r* = T* d(rI*) = dr+ r T*dI* and related conventional and partial isodifferential calculus. The ensuing new mathematics, known as isomathematics, and related theories, known as isomechanics and as isochemistry, did indeed allow a quantitative representation of "all" characteristics of the neutron in its synthesis from the hydrogen. Such a representation then allowed in the late 1990s the achievement of the first known neutron synthesis in laboratory from a hydrogen gas. These studies were recently brought to industrial maturity by the U. S. publicly traded company Thunder Energies Corporation which is now manufacturing and selling a Directional Neutron Source (DNS, international patent pending) producing a flux of neutrons with controlled direction, CPS and energy. In this lecture, we briefly outline the novel isomathematics, isomechanics and isochemistry, their application to the neutron synthesis and point out its application such as: the use for national security because the DNS provides the most effective detection of nuclear weapons smuggled in containers; the detection of the presence and concentration of precious metals in mines; and other applications (see for more details www.santilli-foundation.org/docs/new-sciences-new-era.pdf)

Ruggero Maria Santilli

About Prof. Ruggero Maria Santilli: Academic and scientific notes: Dr. R. M. Santilli received the highest possible education in Italy, emigrated in the USA with his family in 1967 following an invitation from the University of Miami, Florida, to conduct research under NASA support, after which he was in the faculty of Boston University, MIT, and Harvard University under support from NASA, USAFOSR and DOE. From 1985 on, Dr. Santilli has been Professor of Physics and President of The Institute for Basic Research originally located within the compound of Harvard University and moved to Florida in 1989. Dr. Santilli became a U. S. Citizen in 1986. He is the author of 325 papers in mathematics, physics and chemistry published in refereed journals, has written 20 Ph. D. level monographs in various fields, the founder of three scientific journals and the editor of various journals. For details, please visit the more full-length curriculumhttp://www.i-b-r.org/Ruggero-Maria-Santilli.htm. Corporate notes: Dr. Santilli has been Scientific Advisor to various U. S. companies. From 2007 to 2013, Dr. Santilli has been Chief Scientist and Chairman of the Board of Magnegas Corporation, a U. S. company publicly traded at NASDAQ under the stock symbol MNGA, producing and selling the gaseous magnegas fuel synthesized from liquid wastes with complete combustion. For more details, please visit the website http://www.magnegas.com Since 2014, Dr. Santilli is the founder, CEO and Chief Scientist of Thunder Energies Corporation, also a publicly traded company with stock symbol TNRG, for the development of three cutting edge new technologies: the synthesis of neutrons from a hydrogen gas and its application; a new combustion of fossil fuels with complete combustion, and new telescopes for the detection of antimatter galaxies and antimatter cosmic rays. For more details, please visit http://www.thunder-energies.con. Dr. Santilli's Honor: Dr. Santilli has been the recipient of: the 1982 gold medal for scientific merits from the Universite' d'Orleans, France; the 1990 nomination by the Estonia Academy of Sciences "among the most illustrious applied mathematicians of all times"; the 2009 Mediterranean Prize; the 2009 scientific prize from the U.S. Sons of Italy; the 2011 scientific prize from Kathmandu University, Nepal. In 2011 he was recognized as an invited member of the European Society of Computational Methods; in 2016 he received the ICNPAA award at the University of La Rochelle, France; and in 2016 he received the Fray International Sustainability Award, granted at the SIPS International Conference, Hainan Island, China. Dr. Santilli has been nominated since 1987 for the Nobel Prize in Physics and, separately Chemistry. In September 2011, Dr. Santilli was knighted by the Republic of San Marino as a member of the millenary Equestrian Order of Sant'Agata. For more details, please visit the website http://santilli-foundation.org/santilli-nobel-nominations.html



Speech II: Jul. 12(Thu.) 9:50-10:20 Venue: Room 0-821

"Understanding the Behavior of V-band clamps"

Prof. Simon Barrans University of Huddersfield, UK

Abstract of Speech

V-band clamps are widely used in automotive, aeronautical and process industries as a means of connecting circular flanges. Applications include joining together the compressor, bearing and turbine housings in turbochargers, holding together the cans used to enclose diesel particulate filters and connecting pipes used in many processes. These clamps are popular because compared to the equivalent bolted flange joint, they require fewer parts, take up less space both when installed and during installation. For more than a decade, the behaviour and characteristics of these clamps has been researched at Huddersfield. A number of researchers have looked at aspects including stresses generated in the clamps during use, axial clamping load, forming of the clamps, the torsional load capacity and their performance at high temperature. This presentation will give an overview of this research highlighting both the most successful elements and those aspects that have proved most challenging.

Simon Barrans

About Dr Simon Barrans: BSc in Nuclear Engineering (Manchester University), PhD in Mechanical Engineering (Huddersfield University). Fellow of the Institution of Mechanical Engineers and serves on their Academic Assessment Committee and Academic Standards Panel. Fellow of the Higher Education Academy. Dr Barrans spent 5 years in the Nuclear Industry before entering academia. For 8 years he was the leader of the Mechanical Engineering Subject Area at Huddersfield. Over the past 20 years Dr Barrans has supervised a number of PhD students and has published extensively on topics including air bearings, V-band clamps and multi-criteria optimisation. He is an editor for the Central European Journal of Engineering and a reviewer for seven other international journals. In 2014 he moved to the Turbocharger Research Institute at Huddersfield and is currently investigating the optimisation of turbine and compressor housings, high temperature bolted joints, wheel burst prediction and containment modelling and the use of V-band retainers in turbochargers.



Speech III: Jul. 12(Thu.) 10:50-11:20 Venue: Room 0-821

" On the Solution of KdV-like Equations by the Optimal Perturbation Iteration Technique "

Prof. Necdet Bildik Celal Bayar University, Turkey

Abstract of Speech

In this study, optimal perturbation iteration method is implemented to solve Korteweg de Vries (KdV)-like equation to obtain semi analytical solutions. We examine two illustrations to analyze the new optimal perturbation iteration method. This work displays that optimal perturbation iteration technique converges fast to the exact solutions of the differential equations at lower order of approximations.

Necdet Bildik

Necdet Bildik was born in Sivas/TURKEY in 1951. He graduated from Ankara University in 1974. He earned the M.Sc. degree in University of Louisville, Kentucky, USA in 1978. He awarded the Ph.D. degree in Oklahoma State University, USA in 1982. He was Assistant Professor in 1988 and also he was became Associate Professor in 1995. He was promoted to be Professor in 2003. He is interested in numerical analysis, ordinary, partial and non-linear differential equations, ergodic theory, stability theory.

He has over than a hundred published articles in the national and international journals and conferences. He also serves as a reviewer for many international journals.



Speech IV: Jul. 12(Thu.) 11:20-11:50 Venue: Room 0-821

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Prof. Hamid Bahai Brunel University, UK

Hamid Bahai

Hamid Bahai received his PhD degree in 1993 in Computational Mechanics from Queen Mary College, University of London. Between 1993 and 1995 he worked as a Senior Research Engineer at T&N Technology where he was involved in research and development work on a number of projects for the automotive and aerospace industries. This was followed by a period at Halliburton Inc during which time he carried out design and analysis of a number of major offshore structures. In 1996 he moved to the aerospace industry by joining Astrium, an aerospace subsidiary of European Aeronautics Defence and Space company, where as a senior scientist, he played a leading role in conducting design, mathematical modelling and computational analysis of Euro3000 space craft structures and Arian launcher / spacecraft adapter. It was during this period that he was made a fellow of the Institute of Mechanical Engineers for his outstanding technical contributions and services to the scientific and engineering communities. In 1998 he returned to academia and joined Brunel University where he is currently a Professor in Computational Mechanics and Head of Department of Mechanical & Aerospace Engineering. He has led a number of research projects covering a wide range of topics in the area of Computational Mechanics and has published over 120 papers on various themes in the field.

Amongst Hamid Bahais many theoretical and applied contributions include the development of a new type of non-linear shallow shell strain based finite element and a novel inverse eigen value formulation for optimising the vibratory behaviour of structures. His current research interests include development of non-linear finite element formulations and fluid-solid interaction algorithms He has conducted consulting work in the field of structural integrity for many UK and International companies and has given invited talks and courses the world over on various topics in structural computational mechanics. He is the Editor-in-Chief of the European Journal of Computational Mechanics.

Special Events

ELTE Tutorial

Teaching informatics at ELTE was initiated in 1969. The courses, offered to students of mathematics, were called computing techniques. In 1972 professor Imre Kátay recognized the growing significance of informatics and initiated a new curriculum called programmermathematician. In order to organize the introduction of the new courses the Department of Numerical and Computer Mathematics was established. The number of students was increasing rapidly, from 60 in 1972 to 400 in the eighties, and it reached 2000 by the end of the nineties. The huge department had to be divided into three specialized ones, which together created the Institute of Informatics later on. In 2003 the Institute of Informatics and the Department of Cartography of the Faculty of Science established the Faculty of Informatics.

Engineerers from Eötvös Loránd University, Faculty of Informatics, Savaria Institute of Technology, Szombathely, Hungary, will join and deliever speeches about Materials and Mechanical Engineering.

Tutorial

SPECIAL SESSIONS ON: ISOMATHEMATICS, ISOMECHANICS, AND ISOCHEMISTRY

General Chair Dr. Ruggero Maria Santilli Thunder Energies Corporation 1444 Rainville Rd., Tarpon Springs, FL 34684, U.S.A.

Symposiam

This special session is the 5th edition of a series of mini-symposia which bring together researchers from all areas Approximation Theory and Special Functions. The first one was organized within the international conference ICNAAM 2013 Conference in Greece, the second one in MDS 2014 Conference in Bulgaria, the third one in ETAMM 2016 Conference in France, and the last one in ISAAC 2017 Conference in Sweden. The highlighted topics (but not limited to) Classical Approximation, Korovkin-Type Approximation, Statistical Approximation, Interpolation, Fuzzy Approximation, Summability, Time Scales, Constructive Approximation, Orthogonal Polynomials, Generating Functions, Matrix-Valued Polynomials, q-Analysis, Fractional Analysis, General Orthogonal Systems, Fourier Analysis.

Guidelines for Presentations

Oral presentations

Standard LCD projector (connected to a local PC) will be provided in each conference room.

Oral presentations have been allocated 15 minutes of effective presentation time, including Q/A time.

Authors must prepare their oral presentations to be sure to convey their message in clear and sharp manner, including giving outline of the key principles, facts and results. More detailed discussions can continue during the breaks.

In order to ensure a smooth performance during your session, we kindly ask you to consider the following instructions:

Be at the session room 15 minutes before session starts and introduce yourself to the session chairs.

A video projector and a PC will be available in all conference rooms. Speakers suggested not use their own laptop computer, avoiding useless time breaks in between papers.

Bring your presentation on a USB memory stick in MS-PowerPoint or Adobe PDF formats, and upload it in the Session Room computer no later than 10 minutes prior to your session start! You can also bring it earlier, during the coffee/lunch breaks before your presentation. Please upload your presentation in a right place in order to find it easily at the time of presentation.

Please wear formal clothes or national characteristics of clothing for participation.

In order to avoid any compatibility problems, read carefully the instructions below.

PowerPoint Instructions

For MS-PowerPoint presentations, please use the following versions only: PP 97-2003 (*.ppt) or 2007, 2010 to guarantee that it will be opened successfully on the on-site PC

We recommend to the PPT/PPTX format instead of PPS

All videos or animations in the presentation must run automatically!

Pictures/Videos

We cannot provide support for embedded videos in your presentation; please test your presentation with the on-site PC several hours before your presentation.

In case your video is not inserted in MS-PowerPoint, it is possible to have it in other formats – MPEG 2,4, AVI (codecs: DivX, XviD, h264) or WMV. Suggested bitrate for all mpeg4 based codecs is about 1 Mbps with SD PAL resolution (1024x576pix with square pixels, AR: 16/9).

Fonts

Only fonts that are included in the basic installation of MS-Windows will be available (English version of Windows). Use of other fonts not included in Windows can cause wrong layout/style of your presentation.

Suggested fonts: Arial, Times New Roman.

If you insist on using different fonts, these must be embedded into your presentation by choosing the right option when saving your presentation:

Click on "File", then "Save As"

Check the "Tools" menu and select "Embed True Type Fonts"

Poster presentations

Suggested Poster with size of 60cm*80cm (width*height).

Posters are required to be condensed and attractive. The characters should be large enough so that they are visible from 1 meter apart.

Pins or tapes are provided by conference committee to mount your posters on the boards. All materials to be displayed should be prepared before your arrival. Supplies will not be available at the conference site.

Technical Program

Date: Jul. 10, 2018

Time: 14:30-16:45

Campus Visit		
14:30-15:00	Campus Visit	
	ELTE Tutorial	
	"Materials and Mechanical Engineering"	
	Chairperson: Dr. Jurij SIDOR	
	VENUE: Room #	
15:25-15:30	Tutorial Introduction	
15:30-15:45	Inverse Design of Wind Turbine Blades for Extreme Weather Applications	
	Dr. Laszlo E. Kollar	
	Eötvös Loránd University, Faculty of Informatics, Savaria Institute of Technology, Szombathely,	
	Hungary	
15:45-15:00	Wear modelling in Total Knee Replacements	
	Dr. Gusztav Fekete	
	Eötvös Loránd University, Faculty of Informatics, Savaria Institute of Technology, Szombathely,	
	Hungary	
15:00-15:15	Tribology questions in case of light aircraft's silent block	
	Dr. Ando Matyas and Rajmund Lefanti	
	Eötvös Loránd University, Faculty of Informatics, Savaria Institute of Technology, Szombathely, Hungary	
15:15-15:30	Development of microstructure and texture in Al alloys	
	Dr. Pal Gyula	
	Eötvös Loránd University, Faculty of Informatics, Savaria Institute of Technology, Szombathely,	
	Hungary	
15:30-15:45	Modelling the evolution of crystallographic texture and plastic strain ratio in Al alloys	
	Dr. Jurij Sidor	
	Eötvös Loránd University, Faculty of Informatics, Savaria Institute of Technology, Szombathely,	
	Hungary	

Date: Jul. 11, 2018

Time: 9:00-18:30

Time	Activity	Representative VENUE: Room # 0-821
09:00-09:05	Opening Remarks	Prof. Ian McAndrew, Embry Riddle Aeronautical University, UK
09:05-09:20	Welcome Address	Prof. Zoltán HORVÁTH, Dean for Faculty of Informatics, ELTE
09:20-10:05	Keynote Speech-I	"Experimental Investigation of Operational Conditions Effects on Axial
		Fatigue behavior of Carbon/Epoxy Plain Weave Laminates Containing
		Artificial Flaw"
		Prof. Anh Dung Ngo, École de technologie supérieure, Québec, Canada
10:05-10:50	Coffee Break & Grou	ip Photo
10:45-11:30	Keynote Speech-II	"Is the Sky above Us Safe and How has this Been Influenced by the Past and
		Present Policies?"
		Prof. Ian McAndrew, Embry Riddle Aeronautical University, UK
11:30-12:00	Plenary Speech-I	"The Neutron Synthesis from the Hydrogen and its Application for National
		Security"
		Prof. Ruggero Maria Santilli, Institute for Basic Research, USA
12:00-13:00	Lunch	

	Session A-1 "Digital Manufacturing System and Weaponry Manufacturing" Chairperson: VENUE: Room #2-502
13:00-13:15	(C3013) COMPARATIVE STUDY TO THE EFFECT OF SQUEEZE CASTING AND MOLD VIBRATION ON
	FATIQUE PERFORMANCE OF AL-17% Si ALLOY
	Prof. Haydar Al-Ethari, Alaa shaker obaida, Akhlas Khalid Zamel
	University of Babylon -IRAQ
13:15-13:30	(C066) Elasto-Plastic Stress Analysis Methodology Establishment for Forging Dies
	Mr. Dattaprasad Pandurang Lomate, Mr. Govind Jagtap, Mr. Abhijit Patil, Mr. Sanket Inamdar,
	Mr. Manoj Ukhande & Dr. Rajkumar Singh
	Bharat Forge Ltd. India
13:30-13:45	(C1017) Numerical Simulation and Experimental Research on Thermo-mechanical-wear Coupling
	Dr. Peng Fei Chen, Y. X. Xiong, J. W. He, and Y. X. Zhao
	Beihang University, China
13:45-14:00	(C1039) Analysis, Simulation and Improvement of Tool Crib Operations in an Aircraft Maintenance
	Hangar
	Edward Gingell and Assoc. Prof. Michael A. Saliba
	University of Malta, Malta
14:00-14:15	(C2001) Effect of manufacturing tolerance and assembly errors on the characterization of small scale
	slider-crank mechanism
	Prof. Mohamed Damir, Engy Rashed, Ahmed Khatib
	Faculty of Engineering, Alexandria, Egypt
14:15-14:30	(C061) Derivation and Analysis of a State-Space Model for Transient Control of Liquid-Propellant
	Rocket Engines

	Mr. Sergio Perez-Roca, Julien Marzat, Helene Piet-Lahanier, Nicolas Langlois, Marco Galeotta,
	Francois Farago and Serge Le Gonidec
	CNES-ONERA France
14:30-14:45	(C062-A) Experimental Study of Forebody and Strake Configuration Effects on Lateral-Directional
	Static Stability of a Fighter Aircraft
	Prof. Hyoung Seog Chung, Prof. Kybeom Kwon, Dr. Seung Pil Kim and Mr. Sang-Ho Kim
	Korea Air Force Academy, Republic of Korea
	Republic of Korea Air Force Academy & South Korea
	Korea Air Force Academy, South Korea
14:45-15:00	(C140) A Study of Close-Formation Approach Attack Tactic of Multiple Anti-Ship Missiles
	Ms. Yu-Young An, Kuk-Kwon Park, Chang-Kyung Ryoo
	Inha University, South Korea
15:00-15:15	(C2008) Influence of Initial Conditions on Trajectory of a Submunition via Unsteady Simulation
	Dr. Libin Ma, Chao Yan
	School of Aeronautic Science and Engineering, Beihang University, Beijing, China
15:15-15:30	(C139) Trajectory Estimation for a Ballistic Missile in Ballistic Phase using IR Images
	Mr. Kyujin Moon, Hojun Kwon, Chang-Kyung Ryoo, Hongchul Sim
	Inha University, South Korea
15:30-15:45	Best Presentation Award & Session Group Photo &Coffee Break

Session A-2 "Power Machinery System and Analysis" Chairperson: VENUE: Room #2-502			
(C3014) Modal analysis as a tool of problem identification of gear mechanism			
Prof. Katarina Monkova, Peter Monka, Miorita Ungureanu, Nicolae Ungureanu			
FMT TU Kosice with the seat in Presov, Slovakia			
(C005) A Family of Structure-Dependent Integration Methods Enhanced with Favorable Numerical Damping			
Prof. Shuenn-Yih Chang and Chiu-Li Huang			
National Taipei University of Technology, Taiwan, ROC			
(C025) Comparative Analysis of a Floating mooring line-Driven Platform (FMDP) Having Different			
Mooring Lines Patterns			
Dr. Mamon M. Horoub, Sikandar Khan and Sajid Ali			
Entrepreneurship Institute, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia			
(C033) Nonlinear dynamic responses of a cantilever beam under mixed mode of vibration loads			
Dr. Yi Li, Bing Sun, Jie Fang, Tong Liang and Guobiao Cai			
School of Astronautics, Beihang University, Beijing, China			
(C2027) An Adaptive Feedback Turning SIR Particle Filter and Its Application on Fault Diagnosis of			
Auxiliary Power Unit			
Assoc. Prof. Kai Peng, Yingjie Hu, Ding Fan, Fan Yang, Zhaorong Zhang			
School of Power and Energy, Northwestern Polytechnical University, China			
(C015) Modal Dynamic Analysis of a Synchronizer Mechanism: A Numerical Study			
Mr. A.Farokhi Nejad, G.Chiandussi, A. Moshrefzadeh, V.Solimine , A.Serra, E.Rulfi			
POLITECNICO DI TORINO, TURIN, Italy			

17:15-17:30	(C085)Stress Analysis of Internal Gear Pairs with Unequal Tooth Thickness
	Tufan Gürkan Yılmaz, Assoc. Prof. Fatih Karpat
	Uludag University, Turkey
17:30-17:45	(C3009) Experimental Investigation of the Impact Resistance of Involute Spur Gears
	Mr. Oğuz Doğan, Celalettin Yüce, Fatih Karpat, Onur Can Kalay
	Uludag University, Turkey
17:45-18:00	(C068) Modeling thrust cutting force and torque in a vibratory drilling process of titanium alloy
	Ti6Al4V
	Assoc. Prof. Kamel Mehdi and Nawel Glaa
	Preparatory Institute for Engineering Studies El Manar (IPEIEM), University of Tunis EL Manar (UTM),
	Tunisia
18:00-18:15	(C030-A) Single damage identification in metallic structure based on particular swarm optimization
	algorithm
	Heller G. Sánchez A. and Fabian R. Nova A.
	UNIVERSIDAD INDUSTRIAL DE SANTANDER - COLOMBIA
18:15-18:30	(C101) A Passive Flow Control Method Based on the Coandă Effect
	Assoc. Prof. Florin Frunzulica, Alexandru Dumitrache, Octavian Preotu
	"POLITEHNICA" University of Bucharest, Romania
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner

Session B-1 "Control Science and Mechanical Engineering" Chairperson: VENUE: Room #2-712			
13:00-13:15	(C3024-A) Low Cycle Fatigue Life Prediction of Circumferentially Notch Round Bars		
	Assist. Prof. Richa Agrawal, Rashmi Uddanwadiker, J. Veerababu, Sunil Goyal, R.Sandhya, Pramod Padole		
	Pillai College of Engineering, Mumbai India		
13:15-13:30	(C073) Study on the Mechanical Properties of Dissimilar Friction Stir Welding of AA 7075 T6 and AZ 31B Alloys		
	Dr. Musa Bilgin, Şener Karabulut, Ahmet Özdemir		
	Hacettepe University, Turkey		
13:30-13:45	(C067) Cylindrical Grinding Performance Evaluation		
	Mr. Mohd Azher Mohd Mustafa Thanedar, Suhas Joshi and Rajkumar Singh		
	Bharat Forge Ltd. India		
13:45-14:00	(C1023) Small postponed mechanism for delay-unfolding based on pressure device		
	Mr. Yang Jinpeng, Chen Xiaoguang, Xu Hanzhong, Zou Xiaofeng, Jiao Shenghai, Sheng Xi Beijing Institute of Space Long March Vehicle, China		
14:00-14:15	(C145) A numerical modeling study of the effects of various joint boundary conditions on stiffness behaviour of 6-DOF platform' s top plate		
	Mr. Umar Nawaz Bhatti, Sajid Ali, Sikandar Khan, Mamon M. Horoub KFUPM, Saudi Arabia		
14:15-14:30	(C012) Coupled Bending-Torsional Dynamic Behavior of a Cantilever Beam Carrying Multiple Point Masses		
	Ms. Alev Kacar Aksongur, Seher Eken, Metin Orhan Kaya		
	Istanbul Technical University, Turkey		

14:30-14:45	(C059) Experimental investigation on the splitting of center-notched circular tube
	Assoc. Prof. Jafar Rouzegar, Mohammad Karimi
	Shiraz University of Technology, Iran
14:45-15:00	(C089) Structure Damage Detection Based on Ensemble Learning
	Mr. Ding Huang, Deying Hu, Jingwu He, Yuexi Xiong
	Beihang University, China
15:00-15:15	(C3006) A Tuning Method for PI Controller for an Integrating System with Time Delay
	Mr. Haitao Sun, Mohannad Jabbar Mnati, Mohamed Nabil Ibrahim, Alex Van den Bossche
	Gent University, Belgium
15:15-15:30	(C087) Discontinuities of Displacements at the Junction of Two Half-Strips with Different Boundary
	Conditions on their Sides
	Assoc. Prof. Irina V. Menshova, Mikhail D. Kovalenko, Alexander P. Kerzhaev and Tatiana D.
	Shulyakovskaya
	Institute of Earthquake Prediction Theory and Mathematical Geophysics RAS (IEPT RAS), Moscow,
	Russia
15:30-15:45	Best Presentation Award & Session Group Photo &Coffee Break

Session B-2 "Engine Design and Performance Assessment" Chairperson: VENUE: Room # 2-712		
15:45-16:00	(C081) Research on Reverse Design of Turboshaft Engine Based on the Balance of Difficulty Factor	
	Dr. ZHANG Shaofeng, CHEN Yuchun	
	School of Power and Energy, Northwestern Polytechnical University, China	
16:00-16:15	(1029-A) Performance Assessment of Jet Engines by Using Advanced Exergy Analysis	
	Dr. Cem Tahsin Yücer	
	National Defense Univ. Air Force NCO Higher Vocational School, Turkey	
16:15-16:30	(C104) Parameters analysis of non-linear combstion instability base on the pulsed trigger T-burner	
	technique	
	Assoc. Prof. JIN Bing-ning, WEI Shao-juan and LIU Pei-jin	
	Northwestern Polytechnical University, China	
16:30-16:45	(C116) Research on Geometry Configuration/Fuel Distribution of Combustion Chamber of Scramjet	
	Mr. Hao-min Li, Yu-chun Chen, Chun Guan, Yuan Gao, Zhi-hua Wang, Yu-sang Li	
	Northwestern Polytechnical University, China	
16:45-17:00	(C118) Performance analysis of mode transition of a triple combined cycle engine	
	Dr. Yuan Gao, Yu-chun Chen, Shao-feng Zhang, Zhi-hua Wang	
	Northwestern Polytechnical University, China	
17:00-17:15	(C120) Variable compression component interpolation method for turbine engine	
	Mr. Ren Cheng, Jia Linyuan, Chen Yuchun, Li Meijin, Ding Zhaoxia	
	Northwestern Polytechnical University, China	
17:15-17:30	(C121) Performance Calculation and Integrated Mission Assessment of High Speed	
	Turbojet-Scramjet Combined Engine	
	Dr. GAO Yuan, KANG Rui-yuan and CHEN Yu-chun	
17:30-17:45	(C125) Turbo Engine Starting Control Law Design and Process Simulation	
	Dr. Tian Tan, Yu-chun Chen, Xin-yue Ma, Chao Zhou	
	Northwestern Polytechnical University, China	

17:45-18:00	(C128) Steady State Calculation and Performance Analysis of Variable
	Ms. Yu-sang Li, Yu-chun Chen, Qiang Zhao
	Northwestern Polytechnical University, China
18:00-18:15	(C129) Steady State Control Schedule Optimization for A Variable Cycle Engine
	Mr. Ren Cheng, Jia Linyuan, Chen Yuchun, Li Meijin, Ding Zhaoxia
	Northwestern Polytechnical University, China
18:15-18:30	(C3010) Design of Control System for Pulse Detonation Engine
	Dr. ZHANG Wen-long, Li Jiang-hong, Pei Cheng-ming and Fan Wei
	School of Power and Energy, Northwestern Polytechnical University, China
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner
	Session C-1
	"Electronic Systems and Communication Technology in Aerospace" Chairperson:
	VENUE: Room #0-820
13:00-13:15	(C096) On Fairness in the Network Air Traffic Flow Management with Rerouting
	Mr. Sadeque Hamdan, Ali Cheaitou, Oualid Jouini, Zied Jemai, Imad Alsyouf and Maamar
	Bettayeb
	University of Sharjah, United Arab Emirates
13:15-13:30	(C035) Fixed interval scheduling of multiple Earth observation satellites with multiple observations
	Mr. Xinwei Wang, Roel Leus, Chao Han
	Beihang University, China
13:30-13:45	(C3016) A Method of Carrier Landing Position Prediction Based on Sinusoidal Model
	Mr. Jianzhi Wang, Gang Liu and Guanxin Hong
	Beihang University, China
13:45-14:00	(C051) Reconfiguring NASA Generic Transport Model for Normal Flight Envelope Simulation and
	Analysis
	Mr. Ramin Norouzi
	University of Tehran, Iran
14:00-14:15	(2019-A) Test Platform for Small Satellite Attitude Determination and Control System
	Ms. Demet Cilden-Guler, Aykut Kutlu, Chingiz Hajiyev
	Istanbul Technical University, Turkey
14:15-14:30	(C111) Differentiator-based output-feedback sliding mode control for angle constrained midcourse
	guidance
	Dr. Shizheng Wan, Xiaofei Chang, Jie Yan
	Northwestern Polytechnical University, China
14:30-14:45	(C007) A Game-Based Guidance Law against Higher-Speed Maneuvering Penetrator Using Model
	Predictive Method
	Mr. Bo Sun, Xiaofei Chang, Jie Yan, Wenxing Fu
	School of Astronautics, Northwestern Polytechnical University, P.R. China
14:45-15:00	(C143) Simulation and Evaluation of Civil Aircraft Auto-Landing with Various Guidance Systems
	Mr. Li ChengXi and Hong GuanXin
	Beihang University, China
15:00-15:15	(C018) Development of high - temperature position sensors for control of actuators in aerospace
	systems
	Prof. Yongdae Kim, Hyun Young Choi

	Kyungil University, Rep. of Korea
15:15-15:30	(C070) Design of a vibration isolator for the inertial navigation system of an autopilot dedicated to
	the operation of light drones
	Prof. Zhaoheng Liu, Mourad Kedadouche, Sun Yulan, Marc Thomas, Guillaume Charland-Arcand
	and Adrien Beck
	Ecole de technologie supérieure, Université du Quebec, Canada
15:30-15:45	Best Presentation Award & Session Group Photo & Dinner

Session C-2		
"Materials Science and Engineering"		
Chairperson:		
	VENUE: Room #0-820	
15:45-16:00	(C072) Study on the Wire Electrical Discharge Machining of AA 7075 Aluminum Alloy	
	Assist. Prof. Şener Karabulut, Musa Bilgin, Recep Kökçan, Ahmet Özdemir	
	Hacettepe University-Turkey	
16:00-16:15	(C091) Optimization of Graded Metallic Foam Subjected to Impulsive Loading through DOE Approach	
	Mr. Ali Farokhi Nejad, Amin Bassiri Nia, Mohd Yazid Yahya and Amran Ayob	
	POLITECNICO DI TORINO, TURIN, ITALY	
16:15-16:30	(C1008) Microstructure evolution and dynamic recrystallized model of 5083 aluminum alloy during	
	hot deformation	
	Dr. Jiabin Zhang; Shihong Lu	
	Nanjing University of Aeronautics and Astronautics & China	
16:30-16:45	(C114) A Cell Equalization Method Based on Resonant Switched Capacitor Balancing for Lithium Ion	
	Batteries	
	Mr. Ali Farzan Moghaddam and Alex Van den Bossche	
	Gent University, Belgium	
16:45-17:00	(C1027) Thick-walled functionally graded material cylinder under thermo-mechanical loading	
	Assoc. Prof. Hamid Dalir, Mohsen Damadam; Reza Moheimani, Ali Nayebi	
	Purdue University, USA	
17:15-17:30	(C1028) Design of Intake Manifold and Selection of Suitable Material for Intake Manifold Gasket	
	for Student Formula	
	Assist. Prof. Niti Kammuang-lue, Jirawat Boonjun	
	Department of Mechanical Engineering, Faculty of Engineering, Chiang Mai University, Thailand	
17:30-17:45	(C3021-A) Effect of Ply Angle on the Stress analysis of composite pressure vessels by filament	
	winding	
	Prof. Najim A.Saad, li A. Alzubaidi, Tamara Saif	
	Babylon university, Iraq	
17:45-18:00	(C110) Parametric Study of the Compressive Buckling Load of Composite Panels with I-shape	
	Stiffeners	
	Dr. Yuequan WANG, Shuhua ZHU	
	Nanjing University of Aeronautics and Astronautics, China	
18:00-18:15	(C034) An Active Cell Equalization Technique for Lithium Ion Batteries Based on Inductor Balancing	
	Mr. Ali Farzan Moghaddam and Alex Van den Bossche	
	Gent University, Belgium	
18:15-18:30	(C1019-A) Investigation of Thermal Contact Resistance of Fibrous Material in Contact wih	

	Super-alloys Surface
	Prof. Nam Seo Goo, Vinh Tung Le and Jae Young Kim
	Konkuk University, Republic of Korea
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner
	Symposium-1
	"Approximation Theory"
	Chairperson: Prof. Oktay Duman
	VENUE: Room #0-818
13:00-13:15	(MS003-A)Harmonic functions in terms of two-variable orthogonal polynomials on the triangle
	Assoc. Prof. Rabia Aktas and Fatma Tasdelen
	Ankara University, Turkey
13:15-13:30	(MS009-A) Harmonic functions in terms of two-variable orthogonal polynomials on the
	triangle
	Mr. Ismail Aslan and Oktay Duman
	TOBB University of Economics and Technology/ Hacettepe University, Turkey
13:30-13:45	(MS002-A) On Generalized Picard integral
	Prof. Ali Aral, Tuncer Acar and Firat Ozsarac
	Kırıkkale University, Turkey
13:45-14:00	(MS006-A) Some Series Identities For a Class of Polynomials Suggested by Laguerre Polynomials
	Mehmet Ali Ozarslan and Dr. Cemaliye Kurt
	North Cyprus
14:00-14:15	(MS012-A) Recent convergence methods of functions defined on time scale
	Dr. Ceylan Turan Yalçın
	TOBB University of Economics and Technology, Turkey
14:15-14:30	Free Talk

Symposium-2 ""		
	Chairperson: Prof. Ali Aral VENUE: Room #0-818	
14:30-14:45	(MS001-A) On Cheney and Sharma operators	
	Prof. Gulen Bascanbaz-Tunca, Ayşegül Erençin	
	Ankara University, Turkey	
14:45-15:00	(MS004) The Meixner polynomials in several variables	
	Dr. Nejla Ozmen and Esra Erkus-Duman	
	Düzce University, Turkey	
15:00-15:15	(MS014-A) Note on Baskakov Operators Preserving e^{2ax}, a>0	
	Ms. Ovgu Gurel Yilmaz , Vijay Gupta and Ali Aral	
	Ankara University, Turkey	
15:15-15:30	(MS008-A) A result for multivalued almost F_{δ} contraction	
	Dr. Özlem Acar	
	Mersin University , Turkey	
15:30-15:45	Group Photo& Coffee Break	

"Special Functions, Mathematical Modeling and Physical Mathematics"		
Symposium-3+Session D-2		
Chairperson: Prof. Esra Erkus-Duman		
	VENUE: Room #0-818	
15:45-16:00	(MS010-A) Some Convergence Methods on Max-Min Operators	
	Ms. Turkan Yeliz Gokcer and Oktay Duman	
	TOBB University of Economics and Technology, Turkey	
16:00-16:15	(MS005) Generating functions for k-hypergeometric functions	
	Dr. Duriye Korkmaz-Duzgun and Esra Erkus-Duman	
	Kafkas University, Turkey	
16:15-16:30	(MS007-A) Simultaneous approximation by exponential type Bernstein operators with k-th	
	order Kantorovich methods	
	Dr. Tuncer Acar, Ali Aral and Firat Ozsarac	
	Selçuk University, Turkey	
16:30-16:45	(MS011-A) Reconstruction of Baskakov operators preserving some exponential functions	
	Mr. Firat Ozsarac, Ali Aral and Tuncer Acar	
	Kırıkkale University, Turkey	
16:45-17:00	(MS013-A) The comparison of the dynamical systems on the Sierpinski Gasket obtained by	
	different folding maps	
	Ms. Nisa Aslan, Mustafa Saltan and Bünyamin Demir	
	Anadolu University, Turkey	
17:00-17:15	(M030-A) On the Performance of Robust Gm Estimator as a Remedy to Multicollinearity Which is Due	
	to High Leverage Collinearity Enhancing Observations	
	Prof. HABSHAH MIDI, SHELAN ISMAEEL	
	Universiti Putra Malaysia, Malaysia	
17:15-17:30	(M035-A)Leveraging PLS Predict Approach to Assess the Predictive Relevance of a Semantic KMS	
	Model	
	Mr. Azmi Jaafar, Abdulmajid Babangida Umar	
	University Putra Malaysia, Malaysia	
17:30-17:45	(M036-A)Artificial Neural Network Modeling for Chromium (VI) Adsorption Capabilities of	
	Nanocomposite Materials	
	Dr. Türkan Altun and Serpil Edebali	
	Selcuk University, Konya, TURKEY	
17:45-18:00	(M008-A)Weak Gabor duals of Type I in Vector-valued Subspace	
	Dr. Jing Zhao	
	Beijing University of Technology, China	
18:00-18:15	(M026-A) Accelerated Failure Time Model for Time-To-Event-Data	
	Prof. Noor Akma Ibrahim and Mostafa Karimi	
	Universiti Putra Malaysia, Malaysia	
18:15-18:30	(M031)The stress state of a finite elastic cylinder under its proper weight	
	Ms. Anastasiia Filipchuk, Protserov Yuriy, Vaysfeld Natalya	
1	Odesa Mechnikov University, str. Dvoryanskaya, 2, 65082, Odesa, Ukraine	
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner	

"Isomathematics"	
Chairperson: Prof. Svetlin Georgiev	
	Sorbonne University, Paris, France
	VENUE: Room # 1-820
13:00-14:00	(MT101) Fundamentals of Isomathematics
	Arun S. Muktibodh
	Hacettepe University-Turkey
14:00-15:00	(MT102) Introduction to Conformable Iso-Dierential Calculus
	Svetlin G. Georgiev
15:00-16:00	(MT103) On the Santilli's iso-hyper-mathematics. The Santilli's hyper-numbers
	Thomas Vougiouklis
16:00-17:00	(MT104) The Lie Santilli's weak-hyper-admisibility. The helix-hyperoperations on the low dimensional
	cases.
	Thomas Vougiouklis
17:00-18:00	(MT105) Generalized Lie Algebraic Geometry in R3×SO(3) Configuration Space for SU(3) of
	Elementary Particles and for Wave-packing of Atomic Structure.
	Animalu,2, Akpojotor, Edeagu S2,4Trell
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner

Date: Jul. 12, 2018(Tursday)

Time: 9:00-18:30

Time	Activity	Representative
		VENUE: Room # 0-821
09:00-09:05	Opening Remarks	Prof. Dashnor Hoxha, Orleans University, France
09:05-09:50	Keynote Speech-III	"Effective Thermal Properties of Heterogeneous Materials from far Field
		Contactless Temperatures Measurements"
		Prof. Dashnor Hoxha, Orleans University, France
09:50-10:20	Plenary Speech-II	"Understanding the Behaviour of V-band Clamps"
		Prof. Simon Barrans, University of Huddersfield, UK
10:20-10:50	Coffee Break & Grou	ip Photo
10:50-11:20	Plenary Speech-III	"On the Solution of KdV-like Equations by the Optimal Perturbation
		Iteration Technique"
		Prof. Necdet Bildik, Celal Bayar University, Turkey
11:20-11:50	Plenary Speech-IV	<i>(m</i>)
		Prof. Hamid Bahai, Brunel University, UK
12:00-13:00	Lunch	
		Session A-3
	"Power Sy	ystem Modeling and Analysis in Aerospace"
		Chairperson:
		VENUE: Room # 2-502
13:00-13:15	(C102) Applications	of the Coanda Effect in Aeronautics
	Prof. Alexandru D	umitrache, Florin Frunzulica, Octavian Preotu
	Institute of Mathem	atical Statistics and Applied Mathematics Bucharest, Romania
13:15-13:30	(C077) Study on Th	ree-Dimensional Viscous Flow of An Aero Centrifugal Pump Impeller Based on
	Unstructured Hexah	edron Grid
	Dr. Liu Xianwei, L	i Huacong, Shi Xinxing and Fu Jiangfeng
		echnical University, China
13:30-13:45	-	e Analysis of Aviation Fuel Gear Pump Based on AMESim
		, Huacong Li, Hongliang Xiao and Siwei Ren
		l Energy, Northwestern Polytechnical University, China
13:45-14:00		d Combined-Cycle Inlet Researches in Northwestern Polytechnical University
10110 1 1100	. ,	jiang He, Fei Qin, Xianggeng Wei and Peijin Liu
		echnical University, P.R. China
14:00-14:15	-	simulation of a fuel centrifugal pump with integrated inducer and impeller
14.00 14.15	influenced by inlet f	
	Dr. LI Jia	
		, Xi'an, Shannxi , China
14.15 14.20		
14:15-14:30	. , ,	echanical Properties of a Modified Double-base Propellant
	_	n, Wen Pan, Hanzhong Xu, Shenghai Jiao, Mei Sheng
14.20 11 15		Space Long March Vehicle, China
14:30-14:45		thodology to Estimate Solid Propellant Temperature Before Ignition
		talbas, Volkan Coskun, Emre Kutukceken and Bulent Acar
	Roketsan Inc. Turke	У

14:45-15:00	(C1021) Linear friction welding for near net shape manufacturing of titanium alloy Ti-6AI-4V
	aerospace components
	Dr. Anthony R. McAndrew and Bertrand C. D. Flipo
	TWI Ltd., United Kingdom
15:00-15:15	(C078) Hydrodynamic Lubrication Performance Analysis of the Self-Cooled Bearing Structure in
	Aero-Gear Pump Considering the Cavitation Effect
	Dr. Jiaxing Zhu, Huacong Li, Jiangfeng Fu, Xianwei Liu
	Northwestern Polytechnical University, China
15:15-15:30	(C079) Layout Optimization of Solar Array for Stratospheric Airship with Thermal Effect
	Mr. Yifei Wu, Mingyun Lv, Erqiang Cui, Ming Zhu
	Beihang University, China
15:30-15:45	Best Presentation Award & Session Group Photo & Coffee Break
	Session A-4
	"Power Electronics Technology and Communication Engineering"
	Chairperson: VENUE: Room #2-502
15:45-16:00	(C009-A) IMPROVING THE EFFICIENCY OF VAWT THROUGH AUTOMATIC SHIELDING
15.45-10.00	Dr. Jihad Rishmany, Nicolas Saba, Issam Tawk, Macole Sabat and Michel Daaboul
	University of Balamand, Lebanon
16:00-16:15	(C127) Research on Rapid Response Flow Measurement Technology Based on Laminar Flow Meter
10.00 10.15	Dr. WANG Xiaolu, CHEN Yuchun , ZHANG Shaofeng, ZHANG Wenlong
	School of Power and Energy, Northwestern Polytechnical University, China
16:15-16:30	(C3023) Single layer printed photodetector based on MEH:PPV-MoS2 quantum dots composite
	Dr. Memoon Sajid, Soo Wan Kim, Hyun Bum Kim, Kyung Hyun Choi
	Jeju National University, Republic of Korea
16:30-16:45	(C053) Design of Repetitive Controller Using Optimization in Frequency Domain with Maximum Gain
	Constraints
	Dr. Pitcha Prasitmeeboon
	King Mongkut's Institute of Technology Ladkrabang, Thailand
16:45-17:00	(C054) A Multi-Band Frequency and Pattern Reconfigurable Antenna for Wi-Fi/WiMAX and WLAN
	applications
	Assoc. Prof. Sulakshana Chilukuri, Pandu Rangaiah Y, Keshav Dahal and Anjaneyulu Lokam
	Department of Electronics and Communication Engineering,
	Vardhaman College of Engineering, India
17:00-17:15	(C076) Design and Development of Ground Station for Advanced Weather Sensor Network for
	Rainmaking Process in Thailand
	Dr. Peeramed Chodkaveekityada and P. Wardkein
	King Mongkut's Institute of Technology Ladkrabang, Thailand
17:15-17:30	(C2011) Microwave Absorbing Heat Flow Simulation System for Vacuum Thermal Test of Large
	Microwave Antenna
	Assoc. Prof. Yuwei Sun, Xiaoning Liu, Boying Lin
17.20 17.45	Beijing Institute of Satellite Environmental Engineering, China (C032) A Tuning Method for the Derivative Filter in PID Controller with Delay Time
17:30-17:45	(C032) A Tuning Method for the Derivative Filter in PID Controller with Delay Time Mr. Haitao Sun, Mohannad Jabbar Mnati, Mohamed Nabil Ibrahim, Alex Van den Bossche
	rin narray Sun, monannau Sabbar milau, monanneu nabil torallilli, Alex Vali uch bosselle

	Gent University, Belgium
17:45-18:00	(C010-A)INVESTIGATION AND MODIFICATION OF THE TAILORING METHOD IN THE PRESS
	HARDENING PROCESSES USING COUPLED THERMO-MECHANICAL SIMULATION
	Dr. Nicolas Saba, Jihad Rishmany, Michel Daaboul and Issam Tawk
	University of Balamand, Lebanon
18:00-18:15	(C024) Design Method of Rough Terrain Detection and Avoidance in Unknown Environment for
	Space Rover
	Mr. Sousuke Chiba, Prof. Kenji Uchiyama and Kai Masuda
	Nihon University, Japan
18:15-18:30	(C060) Nonhomogeneous Boundary Value Problem for a Semi-strip Clamped at the End: Exact
	Solution
	Assoc. Prof. Alexander P. Kerzhaev
	Institute of Earthquake Prediction Theory and Mathematical Geophysics, Russian Academy of
	Sciences, Russia
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner

Session B-3 "Fluid Mechanics and Applications"	
	Chairperson: VENUE: Room #2-712
13:00-13:15	(C3001) Numerical study of wind loads on a solar panel at different inclination angles
	Dr. Onur Yemenici, Muhammed Osman Aksoy
	Uludag University, Turkey
13:13-13:30	(C008-A) Experimental observation of electrohydrodynamic conduction and injection in a dielectric liquid
	Assoc. Prof. Michel Daaboul, Nicolas Saba, Jihad Rishmany, and Christophe Louste
	University of Balamand, Lebanon
13:30-13:45	(C050) Jet-Wing Interaction Flow Field Study for Missiles in Supersonic Free Streams
	Dr. Longfei Li, Jiangfeng Wang, Yuhan Wang, Faming Zhao
	Nanjing University of Aeronautics and Astronautics, China
13:45-14:00	(C2006-A) EFFECTIVENESS OF PASSIVE BLEEDING AS A FLOW CONTROL METHOD FOR THE FLOW
	STRUCTURE ON LOW TO MODERATE SWEPT DELTA WINGS
	Mr. Kayacan Kestel, Burcu Ramazanlı, M. Metin Yavuz
	Middle East Technical University, Turkey
14:00-14:15	(C3011-A) Development of LBM for numerical simulation of axisymmetric compressible flow using
	finite volume method
	Dr. Ramin Kamali Moghadam, Nasrin Sahranavard Fard and Hamed Jalali
	Aerospace Research Institute, Ministry of Science and Technology, Iran
14:15-14:30	(C036) NUMERICAL SOLUTION OF THE FLOW FIELD AROUND A PROLATE SPHEROID
	Mr. Emre Yüca and Mehmet Şerif Kavsaoğlu
	Anadolu University, Faculty of Aeronautics and Astronautics, Turkey
14:30-14:45	(C1038) Uncertainty Quantification of k- ω Turbulence Model for Hypersonic Flow
	Dr. Yatian Zhao, Chao Yan, Hongkang Liu
	Beihang University, China
14:45-15:00	(C3008-A) Minihelicon plasma discharge simulation for potential electrodeless

	Prof. Md Mahbubur Rahman, Prof. Ighor Uzhinsky
15:00-15:15	SKOLKOVO INSTITUTION OF SCIENCE AND TECH. ,Russia
	(C044) CFD analysis for the performance of Gurney flap on the aerofoil and vertical axis turbine
	Yan Yan, Eldad Avital, Theodosios Korakianitis
	Queen Mary University of London, London
15:15-15:30	(C057) CFD based stochastic optimization of Pelton turbine bucket in Stationery condition
	Mr. Suyesh Bhattarai, Keshav Dahal, Parag Vichare, Bhupesh Mishra
	University of the West of Scotland, UK
15:30-15:45	Best Presentation Award & Session Group Photo & Coffee Break

Session B-4 "Aircraft Structure Design and Optimization" **Chairperson: VENUE: Room #2-712** 15:45-16:00 (C1040) Process Development for the In-house Manufacture of Aircraft Cabin and Cargo Composite Panels Assoc. Prof. Michael A. Saliba, Ian Attard University of Malta, Malta (C115) Influence of the Landing Gear Casing on A High Lift Aircraft 16:00-16:15 Mr. Zhihua Wang, Yuchun Chen, Yuan Gao and Haomin Li Northwestern Polytechnical University, School of Power and Energy, China 16:15-16:30 (C022) The flow characteristics in early stages of the close tandem symmetrical airfoils Assoc. Prof. Yoshifumi Yokoi National Defense Academy of Japan, Japan 16:30-16:45 (C071-A) Hybrid Optimization Approach Combining an Efficient and Global Evolutionary Algorithm with a Gradient-Based Method for Airfoil Design Problems Assoc. Prof. Masahiro Kanazaki and Attaphone Aryarit Tokyo Metropolitan University, Japan 16:45-17:00 (C069) Design Research of Fuselage Structure with Specified Stiffness Properties Mr. Yang Yongze, Xiong Yuexi, He Jingwu Beihang University, China 17:00-17:15 (C2024) Investigation of Aeroelastic Stability on AGARD 445.6 Wing at Transonic Regime Mr. Mustafa Ozcatalbas, Bulent Acar, Sitki Uslu Roketsan Inc. Turkey 17:15-17:30 (C105-A) Examining the Factors Affecting Flight Training and Planning: Identifying VFR Flight Hours for Hasan Polatkan Airport by Studying METAR Reports Assoc. Prof. Savas S. ATES, Batuhan BALLI Anadolu University, Turkey 17:30-17:45 (C1022) Survivability Analysis of Small Single Pawn Scout Unmanned Aerial Vehicle Ms. Buxian Xiong, Qing Han, Zirui Wang Aeronautical College, Northwestern Polytechnical University, Shanxi, Xi'an, China (C3019) Dewetting Stress of Solid Propellant under Uniaxial Tensile Loading 17:45-18:00 Assoc. Prof. Jin Bing-ning, Liu Xin-guo, Liu Pei-jin, Wang Zhe-jun and Han Yong-heng Northwestern Polytechnical University, China 18:30-20:00 Best Presentation Award & Session Group Photo & Dinner

Session C-3		
	"Aircraft Design and Spacecraft"	
	Chairperson:	
	VENUE: Room #0-820	
13:00-13:15	(C046) RF Source Localization using Unmanned Aerial Vehicle with Particle Filter	
	Mr. Mehmet Hasanzade, Ömer Herekoğlu, Ramazan Yeniçeri, Emre Koyuncu, Gökhan İnalhan	
	Istanbul Technical University / Istanbul, Turkey	
13:15-13:30	(C1025) Research on Aeroheating of Complicated Hypersonic Reentry Vehicles	
	Dr. Qin Xuguo, Shui Yongtao, Wang Yonghai, Wang Fei, Li Qiang	
	Beijing Institute of Space Long March Vehicle, China	
13:30-13:45	(C1026) Research on Optimal Guidance Law with Regulable Guidance Coefficient Satisfying Multiple	
	Constraints	
	Dr. Li Qiang, Shui Yongtao, Liu Tao, Wang Fei, Qin Xuguo	
	Beijing Institute of Space Long March Vehicle, China	
13:45-14:00	(C029) Comparison of Generated Flight Delays in Continuous Descent and Step-down Approaches	
	Mr. Ramin Norouzi	
	University of Tehran, Iran	
14:00-14:15	(C080) Transition Flight Control and Test of a New Kind Tilt Prop Box-Wing VTOL UAV	
	Assoc. Prof. Deng Yangping, Gao Honggang	
	Northwestern Polytechnical University P.R. China	
14:15-14:30	(C1034) Wall temperature effects on hypersonic aerodynamics of the Mars entry capsule	
	Dr. Kang Zhong, Chao Yan, Xiaoyong Wang	
	Beihang University, China	
14:30-14:45	(C100) Removal of Organic Contaminants by Argon Plasma Jet: A Perspective Treatment of Urine on	
	Spacecraft	
	Dr. Peerapong Pornwongthong	
	King Mongkut's University of Technology North Bangkok , Thailand	
14:45-15:00	(C2018-A) Attitude Estimation by SVD/EKF using Reformed Measurements and Decomposed Noise	
	Covariance	
	Ms. Demet Cilden-Guler, Chingiz Hajiyev	
	Istanbul Technical University, Turkey	
15:30-15:45	Best Presentation Award & Session Group Photo & Coffee Break	

	Session C-4 "Image Processing and Application" Chairperson: VENUE: Room # 0-820
15:45-16:00	(M015-A)Data Mining in A Smart Traffic Light Control System Based on Image Processing and KNN Classification Algorithm
	Assoc. Prof. Adem Alpaslan Altun, Abdullah Yusefi Selcuk University, Konya, TURKEY
16:00-16:15	(M067)Implementing Virtual 3D Model and Augmented Reality Navigation for Library in University Asst. Prof. Dr. Pijitra Jomsri Suan Sunandha Rajabhat University, 1 U-Thong nok Road, Dusit, Bangkok 10300 Thailand
16:15-16:30	(M043-A)Detection of Damaged Area of Insects in Agricultural Areas by CNN

	Prof. Cemil Sungur, Akif Durdu
	Selcuk University, Konya, TURKEY
16:30-16:45	(M063)Characterizing the spatial distribution of geolocated categorical values
	Prof. Pedro J. Zufiria, and Miguel Á. Hernández-Medina
	Universidad Politécnica de Madrid, Spain
16:45-17:00	(M2001-A)Comparison Of Obesity Prevalence Using Body Mass Index, Waist Circumference And
	Waist To Hip Ratio
	Prof. Asma Ahmad Shariff, and Suhana Japar
	University of Malaya, Malaysia
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner

Session-D-1	
	"Mathematical Theory and Calculation"
	Chairperson:
-	VENUE: Room # 1-820
13:00-13:15	(M007-A)The Green Rings of the △-associative algebras
	Dr. Dong Su
	Beijing University of Technology, China
13:13-13:30	(M009-A) Wavelet estimations for noncompacted density functions with L^1 risk
	Dr. Kaikai Cao
	Beijing University of Technology, China
13:30-13:45	(M017) A Unified Approach to Integration Theory
	Assoc. Prof. Mangatiana A. ROBDERA
	Uiversity of Botswana, Botswana
13:45-14:00	(M027-A)Extra Derivative Multistep Methods with Trigonomerically-Fitting for Oscillatory Problems
	Prof. Fudziah Ismail, Sufia Zulfa Ahmad and Norazak Senu
	DEPARTMENT OF MATHEMATICS, UPM, SERDANG, SELANGOR, 43400, MALAYSIA
14:00-14:15	(M041) On the Solution of KdV-like Equations by the Optimal Perturbation Iteration
	Prof. Necdet Bildik
	Manisa Celal Bayar University -TURKEY
14:15-14:30	(M051)On parallel curves obtained by a space curve in E3 1
	Dr.Muhammed Talat SARIADYIN, Talat Korpinar
	Selcuk university, mus alparslan university, Turkey
14:30-14:45	(M040-A)Mathematics, Topology, Algebraic Topology, Digital Topology, Category Theory, Functional
	Analysis
	Assoc. Prof. Simge Öztunç
	Manisa Celal Bayar University, TURKEY
14:45-15:00	(M062) Some Divisibility Traits On Valuated Binary Trees
	Prof. Xingbo WANG, Hongqiang GUO
	Foshan University, China
15:00-15:15	(M064) A fixed point theorem for quasi - contractive mappings on cone metric space with Banach
	algebras without assumption of normality
	Dr. Eriola Sila, Elida Hoxha, Silvana Lifta
	University of Tirana, Tirana, Albania
15:15-15:30	(M021-A) On Investigation of Static Two-Dimensional Models for Thermoelastic Piezoelectric Shells

	Assoc. Prof. Gia Avalishvili
	I. Javakhishvili Tbilisi State University, Georgia
15:30-15:45	Best Presentation Award & Session Group Photo & Coffee Break
	Tutorial-2
	"Isomechanics & Isochemistry"
	Chairperson: Prof. Anil A. Bhalekar
	R. T. M. Nagpur University, Amravati Road Campus, India
	VENUE: Room # 1-820
15:45-16:40	(MT203) The search for pseudoneutrons and pseudoprotons and their application
	Ruggero Maria Santilli
16:40-17:25	(MT301) Hadronic Chemistry and iso-Helium
	Anil A. Bhalekar and Ruggero M. Santilli
17:25-18:30	(MT302) Elements of hypercombustion
	R. M. Santilli
18:30-20:00	Best Presentation Award & Session Group Photo & Coffee Break

Conference Program

Tutorial-3 "Isomechanics" Chairperson: Prof. Jan Rak Group Leader, CERN VENUE: Room # 0-818

13:00-14:00	(MT201)
	Jan Rak
14:00-15:00	(MT202) Experimental Evidence on the Synthesis of Neutrons and Neutroids from a Hydrogen Gas
	Simone Beghella Bartoli
15:00-16:00	(MT204) Hadronic Structures of Light Nuclides. Stable versus Unstable ones
	Anil A. Bhalekar and Ruggero M. Santilli
16:00-17:00	(MT205)The detection of antimatter galaxies via Santilli Isodual Telescope
	Simone Beghella Bartoli
17:00-18:00	(MT206) Holographic Viscous Dark Energy Described by Modified Equation of
	State and Scalar Field
	G S Khadekar
18:30-20:00	Best Presentation Award & Session Group Photo & Coffee Break

Poster Presentation

Date: Jul. 12 2018(Tursday)

Time: 17:00-18:30

Chairperson:
VENUE: Lobby
(C041)Dynamic Analysis of the Inflatable Net System for Space Capture
Mr. Hao Liu, Cheng Wei, Yang Zhao, Shunli Li, Chunlin Tan, Yongjian Liu
Harbin Institute of Technology, China
(C040)Research on the suppression effect law of different baffle positions on liquid sloshing in spherical tank
Mr. Liang Ma, Cheng Wei, Yang Zhao
Harbin Institute of Technology, China
(C011)An adaptive control approach for a flexible hypersonic glide vehicle
Mr. Erkang Chen, Wuxing Jing, Changsheng Gao, Zhao Zhang
Harbin Institute of Technology, China
(C1012)Rapidly Sampling-Based Trajectory Planning for Spacecraft Proximity
Mr. Ding Zhou, Zhenhua Yu, Yanquan Zhang, Shunli Li
Harbin Institute of Technology, China
(C037)Firing Data Design for the Midcourse Interceptor with Complex Flight Program
Mr. Zhao Zhang, Changsheng Gao, Wuxing Jing, Erkang Chen
Harbin Institute of Technology, China
(C043)Analysis for UAV Heuristic Tracking Path Planning Based on Target Matching
Mr. Changwu Zhang, Yuchen Tang and Hengzhu Liu
National University of Defense Technology, China
(C042)Resident Space Objects Streak Extraction and Angular Measurement Error Anaylsis Base on Space Image
Synthesis System
Ms. Wei E, Cheng Wei, Yaoxiang Jing, Dianjun Wang, Yang Zhao
Harbin Institute of Technology, China
(C063)Development of an Adaptive Radial Basis Function Neural Network Tracking Control for the Yaw Motion of an
Unmanned Helicopter
Assoc. Prof. Ying-Chih Lai, Tri-Quang Le, Chien-Hong Lin and Yi-Ren Ding
Feng Chia University, Taiwan
(C026)Quaternion-based Control of Fixed-Wing UAVs using Logarithmic Mapping
Assoc. Prof. Espen Oland
UiT - The Arctic University of Norway, Norway
(C1030)Analysis of tooth profile tolerance in high-precision end-toothed disc design
Prof. Jianrun Zhang, Beibei Sun, Xi Lu
School of Mechanical Engineering, Southeast University, Nanjing, Jiangsu, China
(C1036)One new method for identification of Distributed Dynamic Load Based on Modal Coordinate Transformation
Assoc. Prof. Jinhui Jiang, Huangfei Kong and Ke Wang
Nanjing University of Aeronautics and Astronautics, China
(C1033)Prediction of the Resonant Fatigue Residual Life of Stiffened Panel by Measuring Frequency
Assoc. Prof. WANG Ke, XIONG Feng, JIANG Jinhui

Assoc. Prof. WANG Ke, XIONG Feng, JIANG Jinhui

Conference Program

Nanjing university of Aeronautics and Astronautics, CHINA (C2005)Minimum-fuel Powered Descent Guidance for Mars Landing Dr. Bai Chengchao, Guo Jifeng, Zheng Hongxing Harbin Institute of Technology, China (C2016)Non-contact Guided Wave Excitation in Composite Plate by the Ultrasound Transmitter Dr. Michal Jurek, Pawel Kudela, Maciej Radzienski, Wieslaw Ostachowicz Polish Academy of Science, Poland (C2021)A Hybird Trajectory Planning Algorithm for UAVs in Cluttered Environments Dr. Hongxing Zheng, Jifeng Guo, Peng Yan Harbin Institute of Technology, China (C090)A Fast PSO Algorithm Based on Alpha-stable Mutation and Its Application in Aerodynamic Optimization Dr. Fan Huayu, Zhan Hao School of Aeronautics, NWPU, Xi'an, P. R. China (C093-A)Simulation of multi-cavity micro-injection system for reducing cavity filling deviation Mr. Beom Rae Kim, Mr. Yongchul Shin and Seung Mo Kim Seoul National University, South Korea (C117)Research on Time-Varying Meshing Stiffness of Helical Gear considering Tribo-Dynamic Behavior Dr. Dong Huili and Niu tao Beijing Research Institute of Precise Mechatronic Beijing, China (C131-A)Dynamic Behavior Analysis of Magnetorheological (MR) Damper and Experimental Validation of the Modified **Bouc-Wen Numerical Model** Dr. Said Boukerroum, N. Kheznadji and N. Hamzaoui Laboratoire de Mécanique Avancée (LMA), USTHB, Algiers, Algeria (C123)A Novel Looseness Detection Method for Hydraulic Pipeline Clamp Based on statistical analysis Ms. Na Xiao, Qin Wei, Ling Lu, Feng Yang Wuhan University of Technology, China (C122)Real-time Data Fusion Method Research Based on Different Measurement Element of Reconnaissance Radar Guanhui Liang, Guizhou Lv, Yafeng Meng Army Engineering University Shijiazhuang Campus, China (C142-A)Comparison of the Performance Characteristics of Turbines with Local Sweep Blade for a Small Axial Supersonic Impulse Turbine Dr. Sooin Jeong, Byoungik Choi, Kuisoon Kim, Hanggi Lee Pusan National University, Republic of KOREA (C134-A)Prediction of Progressive Failure for Curved Composite Laminates under Mode I and Mode II Loading Mr. Seunggu Kang, Jaemoon Im, Sanghyup Lee, Kwangbok Shin Hanbat National University, Rep. of Korea (C099)A Test Method for Testing the Flow of Air Oxygen Supply Equipment Dr. Haichuan Jin, Dongsheng Jiang, Guiping Lin, Jun Huang, Xueqin Bu and Yu Zeng Beihang University, China (M006) Modeling of the HFMD with the Carrier Population Mr. Ruzhang Zhao Tsinghua University, China (M065) The parallel implementation of simultaneous methods for finding the polynomial zeros Assoc. Prof. Eglantina Kalluci, Fatmir Hoxha, Brikena Preni TIRANA, ALBANIA (C058) The use of inflatable structures for the removal of spacecraft from orbit

Dr. Vsevolod V. Koryanov, Victor Kazakovtsev, Alexey G. Toporkov, Anton A. Nedogarok
Bauman Moscow State Technical University, Russia
(C1011) Digital Structure Matching Verification Method between large Spacecraft and On-Orbit Heat Flux Simulation
Device
Assoc. Prof. Jihui Xie, Jing Wang, Xinming Su, Jiayong Qin
Beijing Institute of Satellite Environmental Engineering, China

18:30-20:00 Best Presentation Award & Session Group Photo & Dinner

Listener

(L001)Prof. Marc THOMAS ETS, Canada (L002) Mr. Ali Karami Persian, Iran (L003) Mr. Tianjiao Liang Chengdu Aircraft Design & Research Institute of Aviation Industry Corporation, China (L005) Ms. Huiqin Gao Chengdu Aircraft Design & Research Institute of Aviation Industry Corporation, China (L006) Mr. Yong Tang Chengdu Aircraft Design & Research Institute of Aviation Industry Corporation, China (L007) Dr. Yanxiong Wang Chengdu Aircraft Design & Research Institute of Aviation Industry Corporation, China (L008) Prof. Peter Monka FMT TU Kosice with the seat in Presov, Slovakia (L009) Assoc. Prof. Rashmi Uddanwadiker Visvesvaraya National Institute of Tehnology, Nagpur, India (L010) Prof. SUI QINGMEI Shandong University, China (L011) Ms. ZIRUI WANG Northwestern Polytechnical University, China (L012) Prof. Beibei Sun Southeast University, China (L013) Assoc. Prof. Xi Lu Southeast University, China (L014)Mr. Emmanuel kaku Statistics officer at GC health center, Ghana (L016) Ms. Suhana Japar University of Malaya, Malaysia (L017) Prof. Hilda María Colín Garcían Universidad Nacional Autonoma de Mexico, Mexico

One Day Visit-Budapest

Date: Jul. 13, 2018(Friday)

Time: 9:00-16:00

Attention:

- > This visit will charge **100USD** for each. (Pay to join before June 26, 2018);
- > or you could choose to enjoy free time on July 13 to explore Budapest by yourself;
- > 9:00 AM, pick up at lobby of Ibis Budapest Centrum.
- > Please be there on time, or you will miss the visit.

Route:

you will visit:

Start from 9:00, Jul. 13: Hősök tere-- City Park -- Széchenyi Thermal Bath -- Budapest Zoo--Vajdahunyad Vára-- Former Royal Palace--Old Town Hall--Matthias Church--Holy Trinity Column--Fishermen's Bastion—Citadel-- Great Synagogue-- Orthodox Synagogue

End around 17:00.

Service includes:

- Transportation, Fuel, Parking fees;
- English speaking tour guide;
- Lunch;
- Pick-up & drop-off at gathering spot.

Service excludes:

- Personal expenses (not mentioned above).

Remarks

• The itinerary / duration to visit may change without advance notice depending on group size or unexpected local situation.

• The participants should go to the assembly point by themselves, no pick-up service.