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 Dashnor Hoxha, Orleans University, France

Ramesh K. Agarwal, Washington University in St. Louis, USA Ian McAndrew, Embry Riddle Aeronautical University, UK

Local Chair Kerek Ágnes, Eötvös Lorand University, Hungary

Technical Program

Co-chairs

ANH DUNG NGO, Ecole De Technologie Superieur (U. of Quebec), Canada

Necdet Bildik, Celal Bayar University, Turkey

Huafeng Ding, China University of Geosciences (Wuhan), China

Musilova Michaela, the Slovak Organisation for Space Activities, Slovakia

Huisheng Shi, Tongji University, China

Steering Co-chairs Simon Barrans, University of Huddersfield, United Kingdom

Eldad Avital, Queen Mary University of London, United Kingdom

Hamid Bahai, Brunel University, UK

Ibrahim Ozkol, Istanbul Technical University, Turkey

Katarina MONKOVA, Technical University in Kosice, Slovakia

International Publicity Co-chairs

Kamel Mehdi, University of Tunis EL Manar, Tunisia

Peter Monka, Faculty of manufacturing technologies, Slovakia

Yoshifumi Yokoi, National Defense Academy of Japan, Japan

Myoung-Gyu Lee, Korea University, Korea

ADRIANA FRANCA, Universidade Federal de Minas Gerais, Brazil

Technical Committees

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Linda Vee Weiland, ERAU-Worldwide College of Aeronautics, USA Mark Allen Friend, Embry-Riddle Aeronautical University, USA

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Carlos F.Rodriguez, Universidad de los Andes, Colombia

Andrew Carruthers, University of Bradford, UK

Elena Vishnevskaya, Embry Riddle Aeronautical University, Germany Thananchai Leephakpreeda, Thammasat University, Thailand

Nikolay Borgest, Samara State Aerospace University, Russian Federation

Nadan K. Sinha, I.I.T. Madras, India

Heow Pueh Lee, National University of Singapore, Singapore

Hamid Dalir, Purdue University, US

Şener Karabulut, Hacettepe University, Turkey Abdus Samad, Indian Institute of Technology, India Shariq Neshat Akhtar, University of Leeds, UK

Emin Taner ELMAS, Energy Manager of Sistemas Technology and System Production,

Turkey

Orin L. Godsey, College of Aeronautics, USA

Nam Seo Goo, Konkuk University, Korea

Tomasz Kopecki, Politechnika Rzeszowska, Poland

Antonin Pistek, Institute of Aerospace Engineering, Czech Republic

Zheng Hong Zhu, York University, Canada

TAHİR HİKMET KARAKOÇ, Anadolu University, Turkey

Ferhan Kuyucak Şengur, Anadolu University, Turkey

Mahmut AdilCYÜKSELEN, Istanbul Technical University, Turkey

Josef Klement, Brno University of Technology, Czech Republic

Jae Wook Kim, University of Southampton, UK

Lucia Knapci kova, Technical University of Košice, Slovakia

Jozef Černecký, Technical University of Zvolen, Slovakia

Tomas Kliment, Slovak Legal Metrology, Slovakia

Vsevolod V. Koryanov, Bauman Moscow State Technical University, Russia

J. H. Chen, National Taiwan Ocean University, Taiwan

Ramazan Çitak, Gazi University, Turkey

Woradej Manosroi, Chiang Mai University, Thailand

Rosario Pecora, Universita degli Studi di Napoli "Federico II", Italy

Jung-Chou Hung, Feng Chia University, Taiwan

Mehmet Metin Yavuz, Middle East Technical University, Turkey

Anshuman Srivastava, SIET Allahabad, India.

Mikio HORIE, Tokyo Institute of Technology, Japan

Yuexi Xiong, Beijing University of Aeronautics and Astronautics, China

Satuluri Srikiran, Lendi Institute of Engineering & Technology, India

Maatouk Khoukhi, United Arab Emirates University, UAE

Jose Alejandro POSADA-MONTOYA, Pascual Bravo University Institution, Colombia

Qin Xuguo, Beijing Institute of Space Long March Vehicle, China

Espen Oland, The Arctic University of Norway, Norway

Mehmet Şerif Kavsaoğlu, Fatih Sultan Mehmet Vakif University, Turkey

Michael A. Saliba, University of Malta, Malta

Yongdae Kim, Kyungil University, South Korea

Cem Tahsin Yücer, National Defense University, Turkey

Zhang Jianrun, Southeast University, China

Fedir Gagauz, National Aerospace University "KhAI", Ukraine

Ruxandra Mihaela Botez, École de technologie supérieure, Canada

Dimitris Drikakis, University of Strathclyde, UK

Fatih Karpat, Uludag University, Turkey

Zhaoheng Liu, Université du Québec, Canada

Kai Peng, Northwestern Polytechnical University, China

Ming Zhu, Beihang University, China

T. Rajasanthosh Kumar, Ace Engineering College, India

Chen Yu-chun, Northwestern Polytechnical University, China

Marc Thomas, Université du Québec, Canada

Sun Yuwei, Beijing Institute of Spacecraft Environment Engineering, China

LIU Pei-jin, Northwestern Polytechnical University, China

Dumitrache Alexandru, "POLITEHNICA" University of Bucharest, Romania

Mohamed DAMIR, Alexandria University, Egypt

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	Break
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 Break	
		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
		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
		Room # 0-820
13:00-15:30	Session C-1	Electronic Systems and Communication Technology in Aerospace
15:30-15:45	Coffee Break	
15:45-18:30	Session C-2	Materials Science and Engineering
		Room # 0-818
13:00-14:15	Symposium-1	Approximation Theory and Special Functions - 5th Series
14:15-14:30	Free Talk	
14:30-15:30	Symposium-2	Approximation Theory and Special Functions - 5th Series
15:30-15:45	Coffee Break	
15:45-18:30	Symposium-3	Approximation Theory and Special Functions - 5th Series

		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	un
		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	Session D-2	Mathematical Modeling and Physical Mathematics
-		Room # 0-818
13:00-15:30	Tutorial- 2	Isomechanics& Isochemistry
15:30-15:45	Coffee Break	
15:45-18:30	Tutorial-2	Isomechanics& Isochemistry
18:30-20:00	Dinner	
10.30-20.00	Diffici	

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 NGOEcole 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 effect, the experimental results at 15Hz suggested that, in general, fatigue life increased with load frequency for 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 McAndrewEmbry 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.

Ian 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 HoxhaOrleans University, France

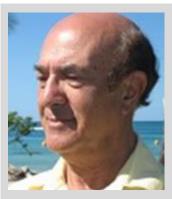
Abstract of Speech

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 various journals. For more details, please visit 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 BarransUniversity 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 BildikCelal 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

Prof. Hamid BahaiBrunel 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. Website:http://thunder-energies.com/





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

Instructions for Presenters

Speakers are requested to be in their respective session rooms at least 10 minutes prior to the commencement of each session.

The duration of a keynote presentation is 40 minutes. This includes 35 minutes for the presentation itself and 5 minutes for Q&A. The duration of a regular presentation is 15 minutes. This includes 12 minutes for the presentation and 3 minutes for Q&A. We would appreciate if all presenters can adhere strictly to this time limit.

Presentation must be carried out using Microsoft PowerPoint or PDF. No slide projectors will be made available.

Speakers should being their presentation materials in a thumb-drive and upload the files from 8:00-8:30 daily or during the coffee breaks or lunches or before the session starts.

Instructions for Presiders

Please time the presentation. Remind the speaker as follows

Regular Talk: One ring at 10 minutes, two rings at 12 minutes.

It is a good idea to remind your speakers at the start of the session that you will timing the speech. Please remember the time frame. Keeping the program to time is very important. Please be aware of the time periods speakers have been designed to present.

If someone in your session didn't show up, please go on with next speaker, and recall the missing one every time when it's next speaker's turn. In this case, we require the speakers of each session should stay the whole session.

Instructions for Poster Presentation

Poster presenter can leave your post at the registration desk, our staff will help you to put up he posters at least 1 hour prior to the commencement of each poster session.

At least one author should be present for each poster during the poster session.

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	up 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
15:45-16:00	(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
16:00-16:15	(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
16:15-16:30	(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
16:30-16:45	(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
16:45-17:00	(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
17:00-17:15	(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
47.00.47.45	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 BİLGİN, Şener KARABULUT, Ahmet ÖZDEMİR	
	Hacettepe University, Turkey	
13:30-13:45	(C067) Cylindrical Grinding Performance Evaluation	
	Mr. Mohd Azher Mohd Mustafa Thanedar, Suhas Joshi and Rajkumar Singh	
12.45 14.00	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	
14.50 14.45	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	
16:00-16:15	Hacettepe University-Turkey (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	
10.00 10.13	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 and Special Functions - 5th Series"			
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 "Approximation Theory and Special Functions - 5th Series" 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	

	Conference Progra	
"Approximation Theory and Special Functions - 5th Series"		
Symposium-3		
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	
17:00-18:30	Discussion and Free Talk	
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner	
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner	

Tutorial-1 "Isomathematics" Chairperson: Prof. Svetlin Georgiev Sorbonne University, Paris, France		
	VENUE: Room # 1-820	
13:00-14:00	(MT102) Introduction to Conformable Iso-Differential Calculus	
	Svetlin G. Georgiev	
	Sorbonne University, France	
14:00-15:00	(MT103) On the Santilli's iso-hyper-mathematics and hyper-numbers	
	Thomas Vougiouklis	
	Democritus University of Thrace, Greece	
15:00-15:30	(MT105) Stochastic Wavepacket Tessellation of Atomic Constitution and Periodic Table in Structural	
	R3×SO(3) Configuration Space	
	Erik Trell, Godfrey Akpojotor, Samuel Edeagu and Alexander Animalu	
	Linköping University, Sweden; Delta State University, Nigeria; University of Nigeria	
15:30-15:45	Coffee break	
15:45-16:45 (MT208) Mathematics and meaning in the Dirac equation		
	Peter Rowlands	
	University of Liverpool, UK	
16:45-17:45	(MT106) Reflections on the significance of the unit in isomathematics as approached from deep	
	Fibonacci mathematics	

	Stein Johansen		
	Norwegian University of Science and Technology, Norway		
17:45-18:30	(MT206) Holographic Viscous Dark Energy Described by Modified Equation of State and Scalar Field		
	G. S. Khadekar		
	Department of Mathematics, Nagpur University, India		
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	up 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	un
		Prof. Hamid Bahai, Brunel University, UK
12:00-13:00	Lunch	
Session A-3		

	Conference Progr
"Power System Modeling and Analysis in Aerospace"	
Chairperson:	
	VENUE: Room # 2-502
13:00-13:15	(C102) Applications of the Coanda Effect in Aeronautics
	Prof. Alexandru Dumitrache, Florin Frunzulica, Octavian Preotu
	Institute of Mathematical Statistics and Applied Mathematics Bucharest, Romania
13:15-13:30	(C077) Study on Three-Dimensional Viscous Flow of An Aero Centrifugal Pump Impeller Based on
	Unstructured Hexahedron Grid
	Dr. Liu Xianwei, Li Huacong, Shi Xinxing and Fu Jiangfeng
	Northwestern Polytechnical University, China
13:30-13:45	(C2025) Performance Analysis of Aviation Fuel Gear Pump Based on AMESim
	Dr. Linxiong Hong , Huacong Li, Hongliang Xiao and Siwei Ren
	School of Power and Energy, Northwestern Polytechnical University, China
13:45-14:00	(C113) Rocket-Based Combined-Cycle Inlet Researches in Northwestern Polytechnical University
	Prof. Lei Shi, Guoqiang He, Fei Qin, Xianggeng Wei and Peijin Liu
	Northwestern Polytechnical University, P.R. China
14:00-14:15	(C2017) The flow simulation of a fuel centrifugal pump with integrated inducer and impeller
	influenced by inlet flow ejector
	Dr. LI Jia
	Chang'an University, Xi'an, Shannxi , China
14:15-14:30	(C1016) Dynamic Mechanical Properties of a Modified Double-base Propellant
	Dr. Chaoxiang Sun, Wen Pan, Hanzhong Xu, Shenghai Jiao, Mei Sheng
	Beijing Institute of Space Long March Vehicle, China
14:30-14:45	(C1031) A Novel Methodology to Estimate Solid Propellant Temperature Before Ignition
	Mr. Mustafa Ozcatalbas, Volkan Coskun, Emre Kutukceken and Bulent Acar
	Roketsan Inc. Turkey
14:45-15:00	(C1021) Linear friction welding for near net shape manufacturing of titanium alloy Ti-6Al-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
	Dr. Jihad Rishmany, Nicolas Saba, Issam Tawk, Macole Sabat and Michel Daaboul

	comercine riog.
	University of Balamand, Lebanon
16:00-16:15	(C127) Research on Rapid Response Flow Measurement Technology Based on Laminar Flow Meter
	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
	Beijing Institute of Satellite Environmental Engineering, China
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
	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
10.15.10.20	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 Farthquake Prediction Theory and Mathematical Geophysics, Pussian Academy of
	Institute of Earthquake Prediction Theory and Mathematical Geophysics, Russian Academy of Sciences, Russia
18.30_20.00	
18:30-20:00	Best Presentation Award & Session Group Photo & Dinner

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 dielectiquid Assoc. Prof. Michel Daaboul, Nicolas Saba, Jihad Rishmany, and Christophe Louste University of Balamand, Lebanon	:ctric
Uludag University, Turkey 13:13-13:30 (C008-A) Experimental observation of electrohydrodynamic conduction and injection in a dielectiquid Assoc. Prof. Michel Daaboul, Nicolas Saba, Jihad Rishmany, and Christophe Louste University of Balamand, Lebanon	ectric
13:13-13:30 (C008-A) Experimental observation of electrohydrodynamic conduction and injection in a dielectiquid Assoc. Prof. Michel Daaboul, Nicolas Saba, Jihad Rishmany, and Christophe Louste University of Balamand, Lebanon	ectric
liquid Assoc. Prof. Michel Daaboul, Nicolas Saba, Jihad Rishmany, and Christophe Louste University of Balamand, Lebanon	ectric
Assoc. Prof. Michel Daaboul, Nicolas Saba, Jihad Rishmany, and Christophe Louste University of Balamand, Lebanon	
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 F	_OW
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 u	sing
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	
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	
SKOLKOVO INSTITUTION OF SCIENCE AND TECH. ,Russia	
15:00-15:15 (C044) CFD analysis for the performance of Gurney flap on the aerofoil and vertical axis turbing	e
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
16:00-16:15	(C115) Influence of the Landing Gear Casing on A High Lift Aircraft

	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
17:45-18:00	(C3019) Dewetting Stress of Solid Propellant under Uniaxial Tensile Loading
	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
13.00-13.13	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
13.13 13.30	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
10.00 10.10	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
14:45-15:00	King Mongkut's University of Technology North Bangkok ,Thailand
	(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
16.00 16.15	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
10.13-10.30	Prof. Cemil Sungur, Akif Durdu
	Selcuk University, Konya, TURKEY
16:30-16:45	(M063)Characterizing the spatial distribution of geolocated categorical values
10.00 10.45	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	
	VEINUE: ROUIII # 1-620
13:00-13:15	(M007-A)The Green Rings of the Δ -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

	Commercial Control (1981)
	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

	Session D-2 "Mathematical Modeling and Physical Mathematics" Chairperson: VENUE: Room # 0-818
15:45-16:00	(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
16:00-16:15	(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
16:15-16:30	(M036-A)Artificial Neural Network Modeling for Chromium (VI) Adsorption Capabilities of
	Nanocomposite Materials
	Dr. Türkan Altun and Serpil Edebali

	Selcuk University, Konya, TURKEY
16:30-16:45	(M008-A)Weak Gabor duals of Type I in Vector-valued Subspace
	Dr. Jing Zhao
	Beijing University of Technology, China
16:45-17:00	(M026-A) Accelerated Failure Time Model for Time-To-Event-Data
	Prof. Noor Akma Ibrahim and Mostafa Karimi
	Universiti Putra Malaysia, Malaysia
16:45-17:15	(M031)The stress state of a finite elastic cylinder under its proper weight
	Ms. Anastasiia Filipchuk, Protserov Yuriy, Vaysfeld Natalya
	Odesa Mechnikov University, str. Dvoryanskaya, 2, 65082, Odesa, Ukraine
17:15-17:30	(M039-A) The non-linear vibrations of the pipe model conveying fluid with fractional damping term
	Assoc. Prof. Dr. Duygu Dönmez Demir, and B. Gültekin Sınır
	Manisa Celal Bayar University, Turkey
17:30-17:45	(M046-A) The estimation of concrete compressive strength with artificial neural networks model
	Assoc. Prof. Ali DEMİR, and Duygu DÖNMEZ DEMİR
	Manisa Celal Bayar University/Turkey
17:45-18:30	Discussion and Free talk
18:30-20:00	Best Presentation Award & Session Group Photo & Coffee Break

Tutorial-2		
"Isomechanics and Isochemistry"		
Chairperson: Prof. Jan Rak and Prof. Anil A. Bhalekar		
Group Leader, CERN & R. T. M. Nagpur University, Amravati Road Campus, Nagpur		
VENUE: Room # 0-818		
13:00-13:30	(MT201) Title to be announced	
	Jan Rak	
	Renaissance University, Prague	
13:30-14:30	(MT210) Mathematical, Theoretical and Experimental Aspects of Santilli's Synthesis of the Neutron	
	from Hydrogen	
	Chandrakant S. Burande	
	Nagpur University, India	
14:30-15:30	(MT202) Experimental Evidence on the Synthesis of Neutrons and Neutroids from a Hydrogen Gas	
	Simone Beghella Bartoli	
	Thunder Energies Corporation, U.S.A	
15:30-15:45	Coffee break	
15:45-16:45	(MT204) Hadronic Mechanics of Light Nuclides. Stable versus Unstable Ones	
	Anil A. Bhalekar and R.M. Santilli	
	Nagpur University, India; TEC, USA	
16:45-17:15	(MT302)Apparent experimental confirmation of pseudoprotons And its applications	
	Ruggero Maria Santilli	
	TEC, USA	

17:15-17:45	(MT211)Preliminary comment about spin-statistic and Santilli new negative-charge-pseudoproton.
	Zbigniew Oziewicz
17:45-18:30	University of Mexico, Mexico
	Summary of meeting and discussions
	Ruggero M. Santilli and others
	TEC, U.S.A.
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

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. Huigin 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.