PROGRAM
1st International Conference ICCMAE – 2018
1. Wednesday, May 23, 2018
Registration of participants, 10:00 - 11:00, ICCMAE 2018 Office, in front of the Auditorium
Opening ceremony, 11:00 - 11:30, Auditorium
Keynote lecture, 11:30 - 12:30, Auditorium

Prof. Siegfried Schmauder	Multiscale Fatigue Simulation

Lunch, 12:30 - 14:00

Session 1A, 14:00 - 15:30, Auditorium
Session Chair: Mohsen Razzaghi, PhD, MSU

1	Slavko Simic	On the symmetrized S-divergence
2	Katarina S. Kukić, Aleksandar D. Jovanović	Fuzzy logic approach on traffic control of an diverging diamond interchange in real time
3	Mónika Szűcs, Gergely Röst	A mathematical model of tumor growing under oncolytic virus therapy
4	Cristian Lazureanu, Ciprian Hedrea, Camelia Petrisor	On the integrable deformations of a system related to the motion of two vortices in an ideal incompressible fluid
5	Ghiocel Groza, Marilena Jianu	Functions represented into fractional Taylor series

Session 1B, 14:00 - 15:30, Amphitheater K1
Session Chair: Liviu Marsavina, PhD, UPT

1	Vyacheslav Burlayenko, Tomasz Sadowski, Daniel Pietras	Influence of Dynamic Loading on Fracture of Face sheet-to-Core Interface in Sandwich Composites
2	Mirjana Stamenić, Nikola Tanasić, Uroš Milovancević, Tomislav Simonović, Milena Otović, Miloš Ivošević, Miloš Mihailović	Numerical analysis of external loads on nozzles of rotary equipment and pressure vessels
3	Ciprian Ionut Zub, Ioan Both, Aurel Stratan, Dan Dubina	Modelling the cyclic response of structural steel for FEM analyses in Abaqus
4	Dominiq Jakab, Aurel Stratan, Dan Dubina	Numerical testing of steel beam-to-column bolted extended end-plate connection with haunches
5	Daniel L. Nunes, Adrian Ciutina, Ioan Marginean, Florea Dinu, Ivana Tadić	Optimisation of FE parameters used in fine numerical modelling of steel T-stub elements

Session 1C, 14:00 - 15:30, Amphitheater K2
Session Chair: Radu Vasiu, PhD, UPT

1	Mădălin-Dorin Pop	Real-Time Adaptive Traffic Signals Using Rate Monotonic Scheduling
2	Sebastian Avram, Andreea-Mirela Safta, George Belei, Cătălin Căleanu, Radu Vasiu	Hardware and Software Integration of an Electrophoretic display on a smart meter
3	Marius Baba, Vasile Gui, Dan Pescaru	Deep Learning Approach for Violence Detection in Urban Areas
4	Florin-Daniel Sandru, Ioan Silea, Razvan-Catalin Miclea	LoRa® based multi-sensor system for heavy duty vehicle detection in restricted areas

5	Muguras Mocofan, Radu Vasiu	Supervised vs. unsupervised content base search of dynamic textures in multimedia databases
Coffee break, 15:30 - 16:00	

Poster Session – P1, 16:00 - 17:30 in front of the Amphitheaters K1, K2		
1	Derrick Jones, Xu Zhang	An immersed finite element method for parabolic interface problems
2	Chartese Jones, Xu Zhang	An efficient numerical method for hyperbolic interface problems
3	Matt Judson, Troy Viger, Hyeona Lim	Efficient and Robust Non-Local Means Denoising Methods for Biomedical Images
4	Arundhati Bagchi Misra, Chartese Jones, Hyeona Lim	Edge Enhancing Accelerated Diffusion Model for Speckle Denoising in Medical Imagery
5	Olivia Bundau, Adina Juratoni	Optimal Conditions for a Control Problem Associated to an Economical Model
6	Bogdan Caruntu, Constantin Bota, Olivia Bundau	Analytical simulation of magneto-hemodynamic flow in a semi-porous channel using the Polynomial Least Squares Method
7	Camelia Pop, Ioana Iosif	An underactued drift-free left invariant control system on the Lie group SU(3)
8	Bartosz Sawicki, Artur Krupa	Stochastic Modelling of Electrical Field in the Plants Using Polynomial Chaos
9	Tudor Bînzar, Sorin Nadaban, Flavius Pater	On fuzzy bounded sets in fuzzy normed linear spaces
10	Lazhar Bougoffa	Solution of the boundary value problem for the generalized Blasius equation
11	Ammar Khanfer, Lazhar Bougoffa	On the solutions of the generalized Lotka-Volterra system
12	Ildiko Kertesz (Brînaș), Florin Popescu, Andrei Andraș	Balance survey / analysis of vertical transport installations using the Nyquist stability criterion
17.30– 19:30		Optional Guided Tour of the Historical City of Timisoara

2. Thursday, May 24, 2018		
Keynote lecture, 09:00 - 10:00, Auditorium	
Prof. Holm Altenbach		Inelastic Behavior of Advanced Heat-Resistant Steels at High Temperature
Keynote lecture, 10:00 - 11:00, Auditorium	
Prof. Mohsen Razzaghi		Hybrid Approximations for Fractional Calculus
Coffee break, 11:00 – 11:30	
Session 2A, 11:30 - 12:30, Auditorium Session Chair: Prof.dr. Constantin Bota, UPT	
1	Maria Lăpădat, Mohsen Razzaghi, Mădălina Paşca	Numerical solution of the first order non-linear differential equations with the mixed non-linear conditions by using PLSM (comparison with Bernstein polynomials method)

2	Madalina Sofia Pasca, Mohsen Razzaghi, Maria Lapadat	Approximate solutions for the Bagley-Torvik fractional equation with boundary conditions using the Polynomial Least Squares Method
3	Daniel Brebenariu	Pilot Project for The Introduction of Modern and Intelligent Public Lighting in the Municipality of Resita, Romania

Session 2B, 11:30 - 12:30, Amphitheater K1 Session Chair: Nicolae Herisanu, PhD, UPT		
1	Alexandru Giurgica	Numerical analysis model of an Air Control Valve The Bond Graph approach
2	Dan-Ioan Stoia, Alin Florin Totorean	Analytical model for computing translational and rotational angular momentum occurring in treadmill walking
3	Iosif Boros, Dan Stoian, Tamás Nagy-György, Valeriu Stoian	Monitoring system of an energy efficient school building

Session 2C, 11:30 - 13:30, Amphitheater K2 Session Chair: Muguras Mocofan, PhD, UPT		
1	Daniel M. Muntean, Viorel Ungureanu	Building retrofitting. From 1970s low rise collective housing to sustainable communities and smart cities
2	Silviu Vert, Diana Andone	Virtual Reality Authoring Tools for Educators
3	Silviu Vert, Radu Vasiu	Alerts and Notifications for Smart Citizens
4	Silviu Vert, Diana Andone, Radu Vasiu	Augmented and Virtual Reality for Public Space Art
5	Razvan Bogdan, György Kolumban-Antal, Vladko Lasak	Air pollution measuring solutions by means of secure low-cost Vehicular Sensor Networks
6	Magdalena Banda, Valentin Ciupe, Cristian Moldovan, Inocentiu Maniu, Robert Kristof	Investigations on collaborative remote control of virtual robotic manipulators by using a Kinect v2 sensor
7	Ciuclea Camelia, Andrei Ternauciuc	Analysis of existing gender differences in using an educational platform

Coffee break, 13:30 – 14:00		

Poster Session – P2, 14:00 - 15:30 in front of the Amphitheaters K1, K2		
1	I-C Predoiu, Liviu Marsavina, Sebastian Muntean	Numerical determination of stress concentration near runner blade – crown/ring junctions
2	Srbislav Genić, Branislav Jaćimović	Reconsideration of friction Factor Data and Equations for Smooth, Rough and Transition Pipe Flow
3	Zbigniew Czyż, Paweł Karpiński, Salih Koçak	Numerical Analysis of the Influence of Particular Parts of High Efficient Electric Vehicle on the Aerodynamic Forces
4	Zbigniew Czyż, Paweł Karpiński, Chahin Boujelbene	Investigation of the Aerodynamic Drag Force of Powerboat for Inshore Racing
5	Steliana Stanciu, Dorin Simoiu, Ion Crâştiu, Sorin Deac, Eduard Nicuşor Oanţă, Liviu Bereteu	The Effect of Corrosion on the Natural Frequencies of Beams

6	Ioan Călin Gozman-Pop, Daniel Vlădaia, Dorin Simoiu, Ion Crâştiu, Andrei Bârgău, Liviu Bereteu	Modal Analysis of Satellites used for Side– Airbeg System
7	Sorin Deac, Steliana Stanciu, Costel Berce, Eduard Nicuşor Oanţă, Daniel Vladaia, Liviu Bereteu	Analysis of the Dynamic Behavior of a Vehicle Suspension when Passing over Different Types of Bump
8	Robert Kristof, Valentin Ciupe, Cristian Moldovan, Inocentiu Maniu	On the design of a myoelectric human-machine interface for the control of an industrial robot
9	Corina Covaci, Aurel Gontean	Energy Harvesting With Piezoelectric Materials for IoT – Review
10	Dumitru Lupascu, Ionel Chirica, Elena-Felicia Beznea, Mihaela Barcan (Savin)	Numerical Non-linear Calculation of the Quadratic Damping Ship's Oscillation Parameters
11	Mihaela Barcan, Ionel Chirica, Elena-Felicia Beznea	Numerical Vibro-Acoustic Analysis of a Ship Compartment Structure
12	Mihaela Barcan (Savin), Adrian Presura, Ionel Chirica, Ionel Iacob	Plastic Deformation Simulations of Steel Panels
13	Dorin Lelea	The numerical analysis of heat transfer and fluid flow in microchannel heat sink with NEPCM-water slurry
16.00– 19:00		Visit to Jecza Art Gallery, Best Papers Award, Dinner Banquet, Closing ceremony