

## 4<sup>th</sup> International Conference of Mechanical Engineering ICOME 2017

11-12 October 2017

### Scientific papers schedule

#### *Section: Modeling and Simulation in Mechanical Engineering*

**Wednesday 11<sup>th</sup> of October 2017- Papers presentation**  
15<sup>30</sup> -17<sup>00</sup>

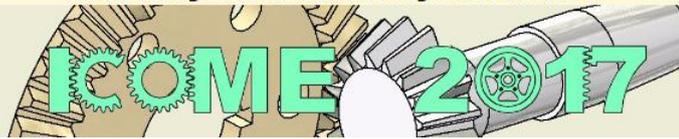
**Chairman: Associate Professor, Dr. Eng. CRISTIAN COPILUȘI**  
**Lecturer Dr. Eng. IONUȚ GEONEA**  
**Hall: BL 48 (New Laboratory Building)**

15 <sup>30</sup> – 15 <sup>45</sup>	<b>Experimental and Numerical Analyses of the Flow and Temperature of Buoyancy–Marangoni Convection in a Liquid</b>	HAGA Masakazu, KONDO Tsuyoshi, HAMAUCHI Takayuki
15 <sup>45</sup> – 16 <sup>00</sup>	<b>Mechanical Design of a Modular-Adaptive Knee Active Orthosis</b>	PETCU Alin, TARNITA Dan
16 <sup>00</sup> – 16 <sup>15</sup>	<b>Actuation Systems of Active Orthoses Used for Gait Rehabilitation</b>	PETCU Alin, GEORGESCU Marius, TARNITA Daniela
16 <sup>15</sup> – 16 <sup>30</sup>	<b>The Study of the Normal Walking Based on Filmed Images Analysis, CAD and Motion Simulation</b>	BUCIU Gabriel, POPA Dragos-Laurentiu
16 <sup>30</sup> – 16 <sup>45</sup>	<b>Influences of Speed and Treadmill Inclination on the Local Dynamic Stability of Human Knee Joint</b>	GEORGESCU Marius, PETCU Alin Marius, TARNITA Daniela
17 <sup>00</sup> - 17 <sup>30</sup>	<i>Coffee break</i>	

**Wednesday 11<sup>th</sup> of October 2017- Papers presentation**  
17<sup>30</sup> – 19<sup>00</sup>

**Chairman: Professor Dr.Eng. ALEXANDRU CĂTĂLIN**  
**Professor Dr. Eng. DANIELA TARNIȚĂ**  
**Hall: BL 46 (New Laboratory Building)**

17 <sup>30</sup> – 17 <sup>45</sup>	<b>On the centrifugal effect on the load of chain and belt transmissions</b>	VELICU Radu, JURJ Lenard, SAULESCU Radu
17 <sup>45</sup> – 18 <sup>00</sup>	<b>3D Modeling and FEM Analysis for Solar Device Mounting System On A Building Roof With Tiles</b>	GAVRILĂ Cornel Cătălin, PAPUC Radu, LATEȘ Mihai - Tiberiu
18 <sup>05</sup> – 18 <sup>15</sup>	<b>The tribological modeling of the tensioning guide - toothed chain contact</b>	PAPUC Radu, LATEȘ Mihai - Tiberiu, VELICU Radu



18 <sup>15</sup> – 18 <sup>30</sup>	<b>Design and Analysis in Virtual Prototyping Environment of an Innovative Integral Steering System for 2-Axle Cars</b>	ALEXANDRU Catalin
18 <sup>30</sup> – 18 <sup>45</sup>	<b>The Influence of the Bush-Bushes Pocket Geometry on the Bush Contact Angle</b>	VELICU Radu, SAULESCU Radu, LATES Mihai
18 <sup>45</sup> -19 <sup>00</sup>	<b>Sprocket – silent chain force distribution with the influence of friction</b>	JURJ Lenard, SAULESCU Radu, VELICU Radu
<b>Thursday 12<sup>th</sup> of October 2017- Papers presentation</b> <b>8<sup>30</sup> – 10<sup>00</sup></b>		
<b>Chairman: Professor Dr. Eng. MIHNEA MARIN</b> <b>Associate Professor Dr. Eng. DRAGOȘ POPA</b> <b>Hall: BL 46 (New Laboratory Building)</b>		
8 <sup>30</sup> – 8 <sup>45</sup>	<b>A Mechanism Proposal for a Human Walking Rehabilitation Test Bed</b>	COPILOSI Cristian, DUMITRU Nicolae, CIUREZU Leonard, MARGINE Alexandru
8 <sup>45</sup> – 9 <sup>00</sup>	<b>Human Upper Limb Experimental Analysis for Complex Motions used in Robotics</b>	MARIN Mihnea, POPESCU Dorin, RUSU Ligia COPILOSI Cristian