



5th International Conference of Mechanical Engineering

ICOME 2019

24-25 October 2019

Scientific papers schedule

Section: Applied Mechanics, Modeling and simulation in mechanical engineering

<i>Thursday 24th of October 2019 - Papers presentation</i>		
<i>16⁰⁰ -17²⁰</i>		
<p>Chairman: Associate Professor, Dr. Eng. Dragos Laurentiu POPA Lecturer Dr. Eng. Cosmin Mihai MIRIȚOIU Hall: BA 129</p>		
16⁰⁰ – 16²⁰	Virtual Experimental Analyzes of the Normal and Arthrotic Hip	Daniel Cosmin CALIN, Dragoș Laurențiu POPA, Alexandru Florian GRECU
16²⁰ – 16⁴⁰	Determining Mechanical Causes that Produce Dental Wear Using Finite Element Method	Mihaela VATU, Daniela VINTILA, Dragos Laurentiu POPA, Rodica MERCUT, Sanda Mihaela POPESCU
16⁴⁰ – 17⁰⁰	Dynamic Answer of a Human Ankle Joint Implant	Cristian COPILUSI, Nicolae DUMITRU, Alexandru, MARGINE Ionut GEONEA
17⁰⁰ - 17²⁰	Modeling the Vibrations of the Pale of a Wind	Ionica VALERIU, Dan BAGNARU, Ionuț GEONEA
17²⁰ - 17⁴⁰	<i>Coffee break</i>	
<i>Thursday 24th of October 2019 - Papers presentation</i>		
<i>17⁴⁰ – 19⁰⁰</i>		
<p>Chairman: Associate Professor Dr.Eng. Laurentiu RACILA Lecturer Dr. Eng. Laura Grigorie Hall: BA 129</p>		
17⁴⁰ – 18⁰⁰	3-D Morphological Analysis of Carbon–Nickel Nanocomposite Thin Films	Ștefan ȚĂLU, Alicja RAȔLEWICZ, Sebastian STACH, Mihai ȚĂLU, Daniela VINTILĂ
18⁰⁰ – 18²⁰	Considerations on Computational Accuracy of the Solution	Ionica VALERIU, Cosmin Mihai MIRIȚOIU, Alexandru BOLCU, Dan BAGNARU, Dumitru BOLCU, Marius Marinel STĂNESCU
18²⁰ – 18⁴⁰	Experimental Analysis of the Movement of the Human Ankle Joint on Three Categories of Subjects with the Monitoring of the Critical States	Florin COLICI, Nicolae DUMITRU, Petre Cristian COPILUSI,
18⁴⁰ – 19⁰⁰	Automation of Installations for Solar Drying of Grain Seeds and Fluidized Bed Technical Plants	Corina Cernăianu, Adrian CERNĂIANU, Eugenia STĂNCUȚ



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Chairman: Professor, Dr. Eng. Daniela TARNIȚĂ Associate Professor Dr. Eng. Corina CERNĂIANU Hall: BA 107		
16⁰⁰– 16²⁰	About the Static Mechanical Properties of Epoxy/Hemp Composites	Cosmin Mihai MIRIȚOIU, Nicolae CRĂCIUNOIU, Alexandru BOLCU, Ionuț GEONEA, Adriana Paula PĂDEANU, Valeriu IONICA,
16²⁰– 16⁴⁰	Real Time Prediction of Sclera Force with LSTM Neural Networks in Robot-Assisted Retinal Surgery	He CHANGYAN, Patel NIRAVKUMAR, Marin KOBILAROV, Iulian IORDACHITA
16⁴⁰– 17⁰⁰	Mobile Orthoses Used for the Osteoarthritic Knee Stabilization	Daniela TARNIȚĂ, Raluca MALCIU, Laura GRIGORIE, Alin ONCESCU, Diana PRUNOIU, Danut-Nicolae TARNIȚĂ
17⁰⁰. 17²⁰	Dynamics of a Linkage Mechanism Using Sample Entropy	Dan B. MARGHITU, Edmon PERKINS,
17²⁰. 17⁴⁰	<i>Coffee break</i>	
<i>Thursday 24th of October 2019- Papers presentation</i> <i>17⁴⁰ – 19⁰⁰</i>		
Chairman: Professor Dr.Eng. Daniela VINTILA Lecturer Dr. Eng. Violeta Cristina CONTOLORU Hall: BA 107		
17⁴⁰– 18⁰⁰	Dynamic Modal Analysis of a Mechanical System with Deformable Elements	Leonard CIUREZU, Gabriel Catalin MARINESCU, Andra Raluca CONSTANTIN, Nicolae DUMITRU
18⁰⁰– 18²⁰	Optimal Design of Components for a Robotic ArmBased on a Matrix Approach of Performance Specifications	Violeta Cristina CONTOLORU, Anca DIDU, Claudia Cristina ROTEA
18²⁰– 18⁴⁰	Dynamic and Modal Analysis of a Snake like Robot	Leonard CIUREZU, Nicolae DUMITRU, Ionut GEOANEA, Cristian COPILUSI
18⁴⁰– 19⁰⁰	Circular-Arc Radial Cams with One Connection Arc	Simona CRETU, Ionut GEONEA
19⁰⁰– 19²⁰	Robotic System for Catheter Navigation during Medical Procedures	Lucian Gheorghe GRUIONU, Cătălin CONSTANTINESCU, Andreea IACOB, Gabriel GRUIONU