

Acta Universitatis Sapientiae

**Electrical and Mechanical
Engineering**

Volume 11, 2019

Sapientia Hungarian University of Transylvania
Scientia Publishing House

Contents

<i>S. Benzahiou, A. Metatla, A. Kerboua, D. Lefebvre, R. Bendib</i> Use of Support Vector Machines for Classification of Defects in the Induction Motor	1
<i>S. Vass, M. Zöldy</i> Detailed Model of a Common Rail Injector.....	22
<i>M. A. Eshag, M. Zarog</i> The Effect of the Electrode Position on the Dynamic Behavior of an Electrostatically Actuated Microcantilever	34
<i>A. Brahmia, R. Kelaiaia</i> Design of a Human Knee Reeducation Mechanism	42
<i>A. Ayadi, K. Meftah, L. Sedira, H. Djahara</i> An Eight-Node Hexahedral Finite Element with Rotational DOFs for Elastoplastic Applications	54
<i>K. Meftah, L. Sedira</i> A Four-Node Tetrahedral Finite Element Based on Space Fiber Rotation Concept	67
<i>A. Merah, R. Kelaiaia, F. Mokhtari</i> A Liquid Metal Flow Between Two Coaxial Cylinders System	79
<i>S. Guerbaai, M. Touiker, K. Meftah, A. Omara</i> Numerical Study of Fluid Flow Through a Confined Porous Square Cylinder.....	87
<i>E. Boussaha, S. Aouici, H. Aouici, A. Bahloul</i> Study of Powder Particle Size Effect on Microstructural and Geometrical Features of Laser Claddings Using Response Surface Methodology RSM.....	99

