

Acta Universitatis Sapientiae

**Electrical and Mechanical
Engineering**

Volume 15, 2023

Sapientia Hungarian University of Transylvania
Scientia Publishing House

Contents

<i>Á. I. Jászberényi</i>	
IoT Sensor Network Solution for Monitoring Wind Induced Waves in Shallow Water	1
<i>H. M. Rostum, J. Vásárhelyi</i>	
A Review of Using Visual Odometry Methods in Autonomous UAV Navigation in GPS-Denied Environment	14
<i>R. Sadouki Bouamama, F. Menezla, M. Debbal</i>	
Performance Analysis of Combining Beamforming and ZF/ MMSE-SIC Equalization Techniques for MIMO DWPT-COFDM Systems	33
<i>T. Touil, A. Lakehal</i>	
Electrical Power Generator Faults Analysis Using Fault Tree and Bayesian Network	45
<i>T. Javanbakht</i>	
Comparative Rheological Investigation of Nanocomposites of Surface Charged Superparamagnetic Iron Oxide Nanoparticles with Polyethylene Glycol.....	60
<i>R. R. Madarász, A. Kelemen</i>	
Reactive Magnetron Sputtering Control Based on an Analytical Condition of Stoichiometry	74
<i>A. Belhanafi, T. Baki</i>	
Numerical Study of Bottom Shape Effect on the Mixing for Stirred Tank	86
<i>A. Chekir, S. Nemouchi, E. Hadjadj Aoul</i>	
Development of a Methodology for Assessing the Quality of Drilling Machines	98

