

ADVANCES IN SCIENCE, TECHNOLOGY AND ENGINEERING SYSTEMS JOURNAL

Volume 9 Issue 1

January-February 2024

CONTENTS

<i>A Smart Farming Management System based on IoT Technologies for Sustainable Agriculture</i>	01
Alioune Cisse, Ousmane Diallo, EL Hadji Malick Ndoeye, Mamadou Sy, Ousseynou Sene, Joel José Puga Coelho Rodrigues	
<i>Verify of Left and Right Differences in Sleep Index using the Ring-type Sensor</i>	09
Yutaka Yoshida, Emi Yuda	
<i>Improved Candidate-Career Matching Using Comparative Semantic Resume Analysis</i>	15
Asrar Hussain Alderham, Emad Sami Jaha	
<i>Strengthening LoRaWAN Servers: A Comprehensive Update with AES Encryption and Grafana Mapping Solutions</i>	33
Sheikh Tareq Ahmed, Annamalai Annamalai, Mohamed Chouikha	
<i>Analysis of Emotions and Movements of Asian and European Facial Expressions</i>	42
Ajla Kulaglic, Zeynep Örpek, Berk Kayı, Samet Ozmen	
<i>Enhancing Compressive Strength of Pervious Concrete for Use as Pavement Layer in Urban Roads</i>	49
Pontsho Penelope Mokgatla, Ramadhan Wanjala Salim, Julius Ndambuki	
<i>Enhancing the Network Anomaly Detection using CNN-Bidirectional LSTM Hybrid Model and Sampling Strategies for Imbalanced Network Traffic Data</i>	67
Toya Acharya, Annamalai Annamalai, Mohamed F Chouikha	
<i>Tracing the Evolution of Machine Translation: A Journey through the Myanmar (Burmese)-Wa (sub-group of the Austro-Asiatic language) Corpus</i>	79
Florance Yune, Khin Mar Soe	
<i>Development and Usability Evaluation of Mobile Augmented Reality Contents for Railway Vehicle Maintenance Training: Air Compressor Case</i>	91
Gil Hyun Kang, Hwi Jin Kwon, In Soo Chung, Chul Su Kim	
<i>Bridging Culture and Care: A Mobile App for Diabetes Self-Care Honoring Native American Cultural Practices</i>	104
Wordh UI Hasan, Kimia Tuz Zaman, Shadi Alian, Tianyi Liang, Vikram Pandey, Jun Kong, Cui Tao, Juan Li	
<i>Smart Agent-Based Direct Load Control of Air Conditioner Populations in Demand Side Management</i>	114
Pegah Yazdkhasti, Julian Luciano Cárdenas–Barrera, Chris Diduch	

<i>Comparing Kalman Filter and Diffuse Kalman Filter on a GPS Signal with Noise</i> Maximo Giovanni Tandazo Espinoza	124
<i>A Novel Metric for Evaluating the Stability of XAI Explanations</i> Falko Gawantka, Franz Just, Marina Savelyeva, Markus Wappler, Jörg Lässig	133
<i>Investigating Heart Rate Variability Index Classification in Macaca fascicularis and Humans: Exploring Applications for Personal Identification and Anonymization Studies</i> Daisuke Hirahara, Itaru Kaneko, Junji Nishino, Junichiro Hayano, Oscar Martinez Mozos, Emi Yuda	143
<i>Development of a GSM-RC Automated Device for Measuring Mobile Communication Signal Strength and Meteorological Parameters</i> Giwa Abdulgafar Babatunde, Ewetumo Theophilus, Ojo Joseph. Sunday, Adedayo Kayode David, Owolabi Gbenga Ayodele	149
<i>Mathematical Model of Wind Turbine Simulator Based Five-Phase Permanent Magnet Synchronous Generator with Nonlinear Loads and Harmonic Analysis</i> Peerawat Meesuk, Vijit Kinnares	165