

ADVANCES IN SCIENCE, TECHNOLOGY AND ENGINEERING SYSTEMS JOURNAL

Volume 6 Issue 4

July-August 2021

CONTENTS

<i>Exploiting Domain-Aware Aspect Similarity for Multi-Source Cross-Domain Sentiment Classification</i> Kwun-Ping Lai, Jackie Chun-Sing Ho, Wai Lam	01
<i>A Reconfigurable Stepped Frequency Continuous Wave Radar Prototype for Smuggling Contrast, Preliminary Assessment</i> Massimo Donelli, Giuseppe Espa, Mohammedhusen Manekiya, Giada Marchi, Claudio Pascucci	13
<i>Graph-based Clustering Algorithms – A Review on Novel Approaches</i> Mark Hloch, Mario Kubek, Herwig Unger	21
<i>Maturity Level of Occupational Health and Safety in Pand Private Organizations in the Bogotá City</i> Yuber Liliana Rodríguez-Rojas ¹ Magda Viviana Monroy Silva Harold Wilson HernándezCruz	Withdrawn
<i>A Statistical Description of Students Admitted to Higher Education Institutions, Public and Private, in Albania for the Academic Year 2017-2018</i> Feruze Shakaj, Markela Muça, Klodiana Bani	37
<i>Remote Patient Monitoring Systems with 5G Networks</i> Antonio Casquero Jiménez, Jorge Pérez Martínez	44
<i>Advanced Physical Failure Analysis Techniques for Rescuing Damaged Samples with Cracks, Scratches, or Unevenness in Delaying</i> Yanlin Pan, Pik Kee Tan, Siong Luong Ting, Chang Qing Chen, Hao Tan, Naiyun Xu, Krishnanunni Menon, Hnin Hnin Win Thought Ma, Kyaw Htin	52
<i>Optimized Component based Selection using LSTM Model by Integrating Hybrid MVO-PSO Soft Computing Technique</i> Anjali Banga, Pradeep Kumar Bhatia	62
<i>Industrial Engineers of the Future – A Concept for a Profession that is Evolving</i> Piwai Chikasha, Kemlall Ramdass, Ndivhuwo Ndou, Rendani Maladzhi, Kgabo Mokgohloa	72
<i>Multidisciplinary Systemic Methodology, for the Development of Middle-sized Cities. Case: Metropolitan Zone of Pachuca, Mexico</i> Montaño-Arango Oscar, Ortega-Reyes Antonio Oswaldo, Corona-Armenta José Ramón, Rivera-Gómez Héctor, Martínez-Muñoz Enrique, Robles-Acosta Carlos	80

<i>New Neural Networks for the Affinity Functions of Binary Images with Binary and Bipolar Components Determining</i>	91
Valerii Dmitrienko, Serhii Leonov, Aleksandr Zakovorotniy	
<i>Web-based Remote Lab System for Instrumentation and Electronic Learning</i>	100
Jose María Sierra-Fernández, Agustin Agüera-Pérez, Jose Carlos Palomares-Salas, Manuel Jesús Espinosa-Gavira, Olivia Florancias-Oliveros, Juan José González de la Rosa	
<i>Kamphaeng Saen Beef Cattle Identification Approach using Muzzle Print Image</i>	110
Hathairat Ketmaneechairat, Maleerat Maliyaem, Chalermpong Intarat	
<i>Business Intelligence Budget Implementation in Ministry of Finance (As Chief Operating Officer)</i>	123
Banir Rimbawansyah Hasanuddin, Sani Muhammad Isa	
<i>Efficiency Comparison in Prediction of Normalization with Data Mining Classification</i>	130
Saichon Sinsomboonthong	
<i>The Gamification Design for Affordances Pedagogy</i>	138
Wilawan Inchamnan, Jiraporn Chomsuan	
<i>Vibration and Airflow Tactile Perception as Applied to Large Scale Limb Movements for Children</i>	147
Hung-Chi Chu, Fang-Lin Chao, Liza Lee	
<i>A Novel De-rating Practice for Distributed Photovoltaic Power (DPVP) Generation Transformers</i>	154
Bonginkosi Allen Thango, Jacobus Andries Jordaan, Agha Francis Nnachi	
<i>Estimation of the Population Mean for Incomplete Data by using Information of Simple Linear Relationship Model in Data Set</i>	161
Juthaphorn Sinsomboonthong, Saichon Sinsomboonthong	
<i>Study on Deformation Behavior of Sediments and Applicability of Sealants in Seabed Mining</i>	170
Takashi Sasaoka, Hiroto Hashikawa, Akihiro Hamanaka, Hideki Shimada, Keisuke Takahashi	
<i>Multi-Robot System Architecture Design in SysML and BPMN</i>	176
Ahmed R. Sadik, Christian Goerick	

<i>Comparison of Learning Style for Engineering and Non-Engineering Students</i>	184
Mimi Mohaffyza, Jailani Md Yunos, Yee Mei Heong, Junita, Fahmi Rizal, Badaruddin Ibrahim	
<i>Mitigation of Nitrous Oxide Emission for Green Growth: An Empirical Approach using ARDL</i>	189
Hanan Naser, Fatema Alaali	
<i>Boltzmann-Based Distributed Control Method: An Evolutionary Approach using Neighboring Population Constraints</i>	196
Gustavo Alonso Chica Pedraza, Eduardo Alirio Mojica Nava, Ernesto Cadena Muñoz	
<i>Initial Experiments using Game-based Learning Applied in a Classical Knowledge Robotics in In-Person and Distance Learning Classroom</i>	212
Márcio Mendonça, Rodrigo Henrique Cunha Palácios, Ivan Rossato Chrun, Diene Eire de Mello, Henrique Cavalieri Agonilha, Elpiniki Papageorgiou, Konstantinos Papageorgiou	
<i>An Efficient Combinatorial Input Output-Based Using Adaptive Firefly Algorithm with Elitism Relations Testing</i>	223
Abdulkarim Saleh Masoud Ali, Rozmie Razif Othman, Yasmin Mohd Yacob, Haitham Saleh Ali Ben Abdelmula	
<i>A New Topology Optimization Approach by Physics-Informed Deep Learning Process</i>	233
Liang Chen, Mo-How Herman Shen	
<i>Evaluation Studies of Motion Sickness Visually Induced by Stereoscopic Films</i>	241
Yasuyuki Matsuura, Hiroki Takada	
<i>Combustion Flame Temperature Considering Fuel and Air Species and Optimization Process</i>	252
Prosper Ndizihwe, Burnet Mkandawire, Kayibanda Venant	
<i>Software Development Lifecycle for Survivable Mobile Telecommunication Systems</i>	259
Mykoniati Maria, Lambrinoudakis Costas	
<i>An Alternative Approach for Thai Automatic Speech Recognition Based on the CNN-based Keyword Spotting with Real-World Application</i>	278
Kanjapanan Sukvichai, Chaitat Utintu	
<i>Performance of Vertical Axis Wind Turbine Type of Slant Straight Blades</i>	292
Hashem Abusannuga, Mehmet Özkaymak	

<i>Evaluation of Information Competencies in the School Setting in Santiago de Chile</i>	298
Jorge Joo-Nagata, Fernando Martínez-Abad	
<i>Segmentation of Stocks: Dynamic Dimensioning and Space Allocation, using an Algorithm based on Consumption Policy, Case Study</i>	306
Anas Laassiri, Abdelfettah Sedqui	
<i>Designs of Frequency Reconfigurable Planar Bow-tie Antenna Integrated with PIN, varactor diodes and Parasitic Elements</i>	320
Mabrouki Mariem, Gharsallah Ali	
<i>Real Time RSSI Compensation for Precise Distance Calculation using Sensor Fusion for Smart Wearables</i>	327
Kumar Rahul Tiwari, Indar Singhal, Alok Mittal	
<i>Theoretical study for Laser Lines in Carbon like Zn (XXV)</i>	334
Nahed Hosny Wahba, Wessameldin Salah Abdelaziz, Tharwat Mahmoud Alshirbeni	
<i>Power Saving MAC Protocols in Wireless Sensor Networks: A Performance Assessment Analysis</i>	341
Rafael Souza Cotrim, João Manuel Leitão Pires Caldeira, Vasco Nuno da Gama de Jesus Soares, Pedro Miguel de Figueiredo Dinis Oliveira Gaspar	
<i>Modelling and Simulation of Fuzzy-based Coordination of Trajectory Planning and Obstacle Avoiding for RRP-Typed SCARA Robots</i>	348
Ngoc-Anh Mai	
<i>Enhance Student Learning Experience in Cybersecurity Education by Designing Hands-on Labs on Stepping-stone Intrusion Detection</i>	355
Jianhua Yang, Lixin Wang, Yien Wang	
<i>Personalized Serious Games for Improving Attention Skills among Palestinian Adolescents</i>	368
Malak Amro, Stephanny VicunaPolo, Rashid Jayousi, Radwan Qasrawi	
<i>Automated Agriculture Commodity Price Prediction System with Machine Learning Techniques</i>	376
Zhiyuan Chen, Howe Seng Goh, Kai Ling Sin, Kelly Lim, Nicole Ka Hei Chung, Xin Yu Liew	
<i>A Scheduling Algorithm with RTiK+ for MIL-STD-1553B Based on Windows for Real-Time Operation System</i>	385
Jong-Jin Kim, Sang-Gil Lee, Cheol-Hoon Lee	

<i>Devices and Methods for Microclimate Research in Closed Areas – Underground Mining</i> Mila Ilieva-Obretenova	395
<i>Quantum Secure Lightweight Cryptography with Quantum Permutation Pad</i> Randy Kuang, Dafu Lou, Alex He, Alexandre Conlon	401
<i>Personalized Clinical Treatment Selection Using Genetic Algorithm and Analytic Hierarchy Process</i> Olena Nosovets, Vitalii Babenko, Ilya Davydovych, Olena Petrunina, Olga Averianova, Le Dai Zyonh	406
<i>Data Stream Summary in Big Data Context: Challenges and Opportunities</i> Jean Gane Sarr, Aliou Boly, Ndiouma Bame	414
<i>A Design of Anthropomorphic Hand based on Human Finger Anatomy</i> Zixun He, Yousun Kang, Duk Shin	431