

ADVANCES IN SCIENCE, TECHNOLOGY AND ENGINEERING SYSTEMS JOURNAL

Volume 7 Issue 5

September-October 2022

CONTENTS

<i>Realization of Skillful Musical Saw Bowing by Industrial Collaborative Humanoid Robot</i>	01
Hiroaki Hanai, Akira Mishima, Atsuyuki Miura, Toshiki Hirogaki, Eiichi Aoyama	
<i>Deep Learning in Monitoring the Behavior of Complex Technical Systems</i>	10
Bahram Ismailov Israfil	
<i>Design of an Off-Grid Hybrid Energy System for Electrification of a Remote Region: a Case Study of Upper Blink Water Community, South Africa</i>	17
Lukanyo Mbali, Oliver Dzobo	
<i>An Improved Model to Analyze the Impact of Cyber-Attacks on Power Systems</i>	27
Muhammad Musleh Uddin, Kazi Rafiqul Islam, Md. Monirul Kabir	
<i>Assessing the Impact of Integrating Solar PV System using the Equal Area Criterion Method</i>	35
Abdul Ahad Jhumka, Robert Tat Fung Ah King, Chandana Ramasawmy	
<i>Effect of Knee Orthosis on Lateral Thrust in Patients with Knee Osteoarthritis</i>	41
Hiroaki Yamamoto, Masahide Endo, Tomohiro Baba, Chikamune Wada	
<i>Analysis of Layout Arrangement for CMOS Oscillators to Reduce Overall Variation on Silicon</i>	46
Pang-Yen Lou, Yung-Yuan Ho, Chua-Chin Wang, Wei-Chih Chang	
<i>Sensitive Analysis in Holding and Penalty Costs for the Stochastic Sequencing Problem in Agile Manufacturing</i>	62
Erick Esparza Tapia, Eva Selene Hernández Gress, Martin Flégl	
<i>Frequency Oscillation Suppression of Interlinked Solar PV-Thermal Power System using HVDC Link</i>	73
Gulshan Sharma	
<i>DEM models Calibration and Application to Simulate the Phosphate Ore Clogging</i>	79
Bouassale Nasr-Eddine, Sallaou Mohamed, Aittaleb Abdelmajid, Benaissa Elfahim	
<i>A Self-Adaptive Routing Algorithm for Real-Time Video Transmission in VANETs</i>	91
Marzouk Hassan, Abdelmajid Badri, Aicha Sahel	
<i>A DC Grid-Connected PV Microgrid Regulated via Digital and MBPC Cascade Control Strategies</i>	102

Elio Sánchez Gutiérrez, Sara Judith Ríos Orellana

<i>Automatic Counting Passenger System Using Online Visual Appearance Multi-Object Tracking</i>	113
Javier Calle, Itziar Sagastiberri, Mikel Aramburu, Santiago Cerezo, Jorge García	
<i>Long-Term Bottom-Up Modeling Of Renewable Energy Development In Morocco</i>	129
Jabrane Slimani, Abdeslam Kadrani, Imad EL Harraki, El hadj Ezzahid	
<i>Model Order Reduction And Distribution For Efficient State Estimation In Sensor And Actuator Networks</i>	146
Ferdinand Friedrich, Christoph Ament	
<i>Detection Of Event-Related Potential Artifacts Of Oddball Paradigm By Unsupervised Machine Learning Algorithm</i>	157
Rafia Akhter, Fred Beyette	
<i>Blockchain Applications In Suning And PingAn</i>	167
Cong Qi, Yue Lei, Yuejun Cai	
<i>Association Rules For Knowledge Discovery From E-News Articles: A Review Of Apriori And FP-Growth Algorithms</i>	178
Thilini Lakshika, Amitha Caldera	
<i>Hybrid Neural Network Method for Predicting the SOH and RUL of Lithium-Ion Batteries</i>	193
Brahim Zraibi, Mohamed Mansouri, Salah Eddine Loukili, Said Ben Alla	