

ADVANCES IN SCIENCE, TECHNOLOGY AND ENGINEERING SYSTEMS JOURNAL

Volume 8 Issue 1

January-February 2023

CONTENTS

<i>Meta-heuristic and Heuristic Algorithms for Forecasting Workload Placement and Energy Consumption in Cloud Data Centers</i> Amine Bouaouda, Karim Afdel, Rachida Abounacer	01
<i>Characterization and Investigating the Effect of Gate-Insulator Thickness on Co-Axial Cylindrical Carbon Nanotube Field Effect Transistor</i> Suchismita Sen, Argha Sarkar, Pinaki Chakraborty	12
<i>Design of an Open Source Anthropomorphic Robotic Hand for Telepresence Robot</i> Jittaboon Trichada, Traithep Wimonrut, Narongsak Tirasuntarakul, Eakkachai Pengwang	17
<i>Analysis and Trend Estimation of Rainfall and Seasonality Index for Marathwada Region</i> Himanshu Bana, Rahul Dev Garg	30
<i>Design, Optimization and Simulation of a New Decoder for Reed Solomon and BCH Codes using the New Syndromes Block</i> Mohamed Elghayyaty, Anas El Habti El Idrissi, Omar Mouhib, Azeddine Wahbi, Abdelkader Hadjoudja	38
<i>Nonlinear Model Predictive Control of Rover Robotics System</i> Serdar Kalaycioglu, Anton de Ruyter	44
<i>Economic-ecological study of the solutions proposed by HOMER for the optimization of an industrial installation</i> Othmane Echarradi, Abdessamad Benlafkih, Mounir Fahoume	Withdrawn
<i>An Efficient Way of Hybridizing Edge Detectors Depending on Embedding Demand</i> Habiba Sultana, A. H. M. Kamal	63
<i>On the Polytopic Modelling & Robust H^∞ Control of Nonlinear Systems Subject to Cyber-attack: Application to Attitude Stabilization of Quadrotor</i> Bezzaoucha-Rebaï Souad	78
<i>An Ensemble of Voting- based Deep Learning Models with Regularization Functions for Sleep Stage Classification</i> Sathyabama Kaliyapillai, Saruladha Krishnamurthy, Thiagarajan Murugasamy	84
<i>Integrated GIS-SUE Map Cost Estimation System Prototype for Designing a Decision Support System</i> Ali Nashwan, Khalil Al-Joburi	95

<i>Conception and Simulation of an Electronic Nose Prototype for Olfactory Acquisition</i>	101
Mostapha Harmouzi, Aziz Amari, Lhoussaine Masmoudi	
<i>Prototype to Identify the Capacity in Cybersecurity Management for a Public Organization</i>	108
Richard Romero Izurieta, Segundo Moisés Toapanta Toapanta, Luis Jhony Caucha Morales, María Mercedes Baño Hifóng, Eriannys Zharayth Gómez Díaz, Oscar Marcelo Zambrano Vizúete, Luis Enrique Mafla Gallegos, José Antonio Orizaga Trejo	
<i>Metaheuristic Optimization Algorithm Performance Comparison for Optimal Allocation of Static Synchronous Compensator</i>	116
Abdulrasaq Jimoh, Samson Oladayo Ayanlade, Emmanuel Idowu Ogunwole, Dolapo Eniola Owolabi, Abdulsamad Bolakale Jimoh, Fatina Mosunmola Aremu	
<i>Northern Leaf Blight and Gray Leaf Spot Detection using Optimized YOLOv3</i>	125
Brian Song, Jeongkyu Lee	
<i>Active Simulation of Grounded Parallel-Type Immittance Functions Employing VDBAs and All Grounded Passive Components</i>	131
Pratya Mongkolwai, Pitchayanin Moonmuang, Worapong Tangsirat, Taweepol Suesut	
<i>A Model for Teaching Mathematics to Gifted Students Based on an Effective Combination of Various Approaches for their Preparation</i>	138
Zhanna Dedovets, Mikhail Rodionov, Anna Novichkova	