## ADVANCES IN SCIENCE, TECHNOLOGY AND ENGINEERING SYSTEMS JOURNAL

Volume 8 Issue 4 July-August 2023 CONTENTS Doubling the Number of Connected Devices in Narrow-band Internet of Things 01 while Maintaining System Performance: An STC-based Approach Abdulwahid Mohammed, Mohamed S. Elbakry, Hassan Mostafa, Abdelhady Abdelazim Ammar Design and Manufacturing of Soft Grippers for Robotics by Injection Molding 11 Technology Helmy Dewanto Bryantono, Melsiani Rosdiani Fillipin Saduk, Jiaqi Hong, Meng-Hsun Tsai, Shi-Chang Tseng Localization of Impulsive Sound Source in ShallowWaters using a Selective 18 Modal Analysis Algorithm Faraz Talebpour, Saeed Mozaffari, Mehrdad Saif, Shahpour Alirezaee Investigating the Impression Effects of a Teacher-Type Robot Equipped a 28 Perplexion Estimation Method on College Students Kohei Okawa, Felix Jimenez, Shuichi Akizuki, Tomohiro Yoshikawa Fuzzy MPPT for PV System Based on Custom Defuzzification 36 Abdelmadjid Allaoui, Mohamed Nacer Tandjoui, Chellali Benachaiba A Circuit Designer's Perspective to MOSFET Behaviour: Common Questions 41 and Practical Insights Ralf Sommer, Carsten Thomas Gatermann, Felix Vierling Proportional Derivative and Proportional Integral Derivative Controllers for 60 Frequency Support of a Wind Turbine Generator in a Diesel Generation Mix Abdul Ahad Jhumka, Robert Tat Fung Ah King, Chandana Ramasawmy, Abdel Khoodaruth Distribution Management Problem: Heuristic Solution for Vehicle Routing 66 Problem with Time Windows (VRPTW) in the Moroccan Petroleum Sector Younes Fakhradine El Bahi, Latifa Ezzine, Zineb Aman, Imane Moussaoui, Miloud Rahmoune, Haj El Moussami MRI Semantic Segmentation based on Optimize V-net with 2D Attention 73 Zobeda Hatif Naji Al-azzwi, Alexey N. Nazarov Kinematics Design and Statics Analysis of Novel 6-DOF Passive Vibration Withdrawn Isolator with S-shaped Legs Based on Stewart Platform Pham Van Bach Ngoc, Thien Nguyen Luong

FPGA Implementation of 5G NR LDPC Codes	91
Sahar Fekry Abdel-Momen, Abdel Halim Abdelnaby Zekry, Ashraf	
YehiaHassan, Wageeda Ibrahim Shaban, Mustafa Mohammed Shiple	
Application of Lean Practices in Food Supply Chain: The Case of Morocco	101
Fadwa Bouhannana, Akram El Korchi	
Colorized iVAT Images for Labeled Data	111
Elizabeth Dixon Hathaway, Richard Joseph Hathaway	
SEVEN ReImagined: A Transmedia Storytelling Evolution Proposal	122
Joana Braguez	