

2023 3rd International Scientific Conference of Engineering Sciences (ISCES 2023)

**Diyala, Iraq
3 – 4 May 2023**



**IEEE Catalog Number: CFP23N81-POD
ISBN: 979-8-3503-0292-9**

**Copyright © 2023 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP23N81-POD
ISBN (Print-On-Demand):	979-8-3503-0292-9
ISBN (Online):	979-8-3503-0291-2

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Table of Content

Seq.	Paper Title	Pages	Paper ID
1	A Fast and Accurate Optimized Iris Recognition Scheme Based on Modified GSO Algorithm	1 - 6	01
2	Using User Experience Metrics for Academic Management System of University of Baghdad	7 - 12	02
3	A Hybrid and Scalable Sentiment Analysis Framework: Case of Russo-Ukrainian War	13 – 18	03
4	A Blockchain-Based Secure Mutual Authentication System for E-Government Services	19 - 24	04
5	Bi-objective Task Scheduling based on Heuristic Initialization of the Jellyfish Search Algorithm in Cloud Computing	25 - 30	05
6	Physical Layer Secrecy Analysis Using Permutation Index-Based OFDM-DCSK System	31 – 36	06
7	Noncoherent Combining of Small Satellites Signals – Proof of Concept	37 - 41	07
8	Reducing Reversible Circuit Line Count Using Boolean Techniques	42 – 47	08
9	Virtualizing Quantum key Distribution based on Network Function Virtualization	48 – 53	09
10	Deep CNN-Based-Flower Species Recognition System	54 – 58	10
11	Simulation Platform for End-to-End Deep Learning based Coherent Fiber Communication System	59 – 63	11
12	Evaluate the Effect of the operation of Al Mussaib Thermal Power Station on Water Properties in the Euphrates River/ Iraq	N/A	12
13	Optimization for Corrosion Inhibition of Steel in Hydrochloric Acid by DHOT as a Novel Corrosion Inhibitor	N/A	13
14	Ocean Energy Harvesting to Generate Electricity Using a Raft	73 - 77	14

3rd International Scientific Conference of Engineering Sciences (ISCES-2023)**University of Diyala, Diyala–Iraq**

Seq.	Paper Title	Pages	Paper ID
15	Influence of Magnetohydrodynamic on Free Convection Inside Porous Square Wavy Enclosure	N/A	15
16	Vortex Breakdown Detection over Delta Wing using CFD	N/A	16
17	Synthesis of Metakaolin-Based Geopolymer Concrete Using Industrial Ingredients	N/A	17
18	Effect of Reinforcement with Nanoparticles and Micro Particles of Zinc Oxide on the Properties of the Hybrid Mixture Reinforced with Carbon Fibers	N/A	18
19	Comparison Between a Mathematical Model and a 3D CAD Model for a Quadrotor	N/A	19
20	Enhancing Thermal and Acoustic Insulation of Novolac Aggregate Concrete through Heat Treatment and Density Variation	N/A	20
21	The Effect of Different Parameters on Characterization of Nano Ceramic/Polymer Coating Layers Produced by EPD	N/A	21
22	Free Vibration Analysis for FGM Plates with Different Porosity Layers	N/A	22
23	Power Flow and Efficiency Analysis of Dual-Input Multi-Planet Gear Trains	N/A	23
24	The Relationship Between Thermo-Mechanical Treatment and the Properties of CuAlNi Shape Memory Alloys	N/A	24
25	Propagation Modes of TE and TM Properties in Nanomaterial Silicon by using Asymmetric Slab Waveguide	128 – 133	25
26	Review: Controller System Design of Permanent Magnet Direct Current Motor Based on Fuzzy Logic	134- 139	26
27	Application of Intelligent Optimization Algorithms on Short-Term Electric Load Forecasting: A review	140 - 144	27
28	Enhanced Real-Time Fuzzy PID Controlled WNCS Over TCP/UDP Protocol	145 - 150	28

3rd International Scientific Conference of Engineering Sciences (ISCES-2023)**University of Diyala, Diyala–Iraq**

Seq.	Paper Title	Pages	Paper ID
29	Comparison between Conventional PI and Sliding Mode with Salp Swarm Algorithm to Position Two BLDC Motors	151 - 156	29
30	Improving Gains of a PID Controller for Non-Linear DC-DC Converter Using Gray Wolf Optimization Method	157 - 160	30
31	Energy Saving for Smart Buildings Appliances in Baghdad City during Summer	161 - 166	31
32	Low Area Implementation of FIR Filter Based on FPGA Using Approximation Method	167 - 172	32
33	Flow Characters Through Self-Spillway Dams with Non-Impermeable Core	N/A	33
34	Topophilia Tourist Places: The Impact of Sustainable Tourism in Historical Areas on the Development of Place Attachment	N/A	34
35	Computational Fluid Dynamics-Based Simulation of Scour Depth in Bed of channel downstream Flow Deflectors	N/A	35
36	The Minimalist Theory Between Exclusion and Overflow in the Design of Interior Spaces	N/A	36
37	The Number of Fuzzy Subgroups of Groups of Units Modulo 20 and 21	N/A	37
38	Author Index	I – IV	38
39	Keynote Speaker	B1	39