2022 Iraqi International **Conference on Communication** and Information Technologies (IICCIT 2022)

Basrah, Iraq **7 – 8 September 2022**



IEEE Catalog Number: CFP22DM2-POD ISBN:

978-1-6654-7221-0

Copyright © 2022 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:
 CFP22DM2-POD

 ISBN (Print-On-Demand):
 978-1-6654-7221-0

 ISBN (Online):
 978-1-6654-7220-3

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



2022 Iraqi International Conference on Communication & Information Technologies (IICCIT), Basrah University , Basrah-Iraq

Table of Contents

No.	Paper Title	Page No.
1	A Proposed Class Labeling Approach: From Unsupervised to Supervised Learning	1-6
2	A Review: Deep Learning Aided Channel Estimation Techniques for Wireless Communication System	7-12
3	A Review: Error Correcting Codes for Efficient Underwater Optical Communication MIMO System	13-19
4	A Survey of Congestion Control in Vehicular Ad-Hoc Networks(VANET)	20-25
5	A Comparison Study for applying Different Deep Learning Models On Fire Detection method	26-31
6	A Secure and Authentication Scheme to Preserve the Privacy of Electronic Health Records in the Healthcare System	32-37
7	An Efficient Intersection Over Union Loss Function for 3D Object Detection	38-43
8	An Efficient Predictor of Renewable Energy Based on Deep Learning Technique (DGBM) and Multi-Objectives Optimization Function	44-50
9	An Efficient Student Attendance Scheme Based On QR Code and Device Identifier	51-56
10	An Improved Design of Pseudo-Random Bit Generator Based on Hyper chaotic Systems and its Application in Image Encryption Systems	57-63
11	An IoT Network Identifier Using Machine Learning-Assisted Feature Selection and SMOTE	64-69
12	An Optimization-Based Clustering Method used for an Efficient Oil and Gas Fields Pipelines Design	70-75
13	Automatic Brain Cancer Recognition in CT-Scan Images	76-81
14	Botnet Mobile Detection Using Machine & Deep Learning Techniques	82-87
15	Classification of psoriasis and eczema based on Convolutional Neural Network	88-94
16	Clustering-Based Collaborative Recommender System Using a Nature-Inspired Algorithm	95-100
17	Applications of Neurocomputing (KC-LSTM) in Prediction Fire - A Comprehensive Study and Understanding	101-106
18	Analyzing the Differences of Female/ Male Faces on Recognition Accuracy	107-113
19	Array of Slot Metasurface Units Cell for Wireless Application	114-119
20	Construct an Efficient DDoS Attack Detection System Based on RF-C4.5-GridSearchCV	120-124
21	Deep Transfer Learning and Data Augmentation for Food Image Classification	125-130
22	Detecting Diabetes Using Machine Learning Algorithms	131-136
23	Dynamic System Based on RSSI for Indoor localization Using Multi-Bands	137-141

2022 Iraqi International Conference on Communication & Information Technologies (IICCIT), Basrah University , Basrah-Iraq

No.	Paper Title	Page No.
24	Effect of Fiber Stimulated Raman Scattering on the Performance of S+C+L Ultra-wideband WDM System	142-147
25	Evaluation of the Recent Irrigation Techniques: A Review	148-152
26	Experimental Modeling of Pneumatic Muscle Actuator	153-158
27	Dynamic Multi-Threaded Path Planning Based on Grasshopper Optimization Algorithm	159-164
28	Fragile Watermark Based on Singular Value Decomposition	165-170
29	Feature Selection and Parameter Optimization of SVM by Using a Hybridization Model	171-176
30	Gesture Interpreting of Alphabet Arabic Sign Language Based on Machine Learning algorithms	177-183
31	Harmonics Compensation for Grid Connected to PV System Using Two-Step Finite Set Predictive Control	184-189
32	Image Blocks Encrypted then Rotated: A New Pixel-Level Scrambling Method Based Logistic Map for IOT	190-195
33	Image-Based Person Re-identification Using Omni-Scale Feature Learning	196-202
34	Implementation of Deep Learning in Detection of Covid-19 In X-ray Images Using Raspberry Pi	203-208
35	Improving the Performance of Pitch Angle Control of Variable Speed Wind Energy Conversion Systems Using Fractional PI Controller	209-215
36	Intrusion detection system for Healthcare based on Convolutional Neural Networks	216-221
37	Load Balancing in IoT Networks: A Systematic Review	222-226
38	Mapping of PV Solar Module Technologies Across Libyan Territory	227-232
39	Design Interactive Game by Using Visualization: The Movie Data Set	233-238
40	Detection of Rolling-Element Bearing Faults with Different Conditions	239-244
41	Maximum Power Extraction for Wind Energy Systems Using a Double Integral Sliding Mode Controller	245-251
42	Modelling and controlling of modified robotic gripper mechanism using intelligent technique scheme	252-257
43	MRI brain tumor classification using robust Convolutional Neural Network CNN approach	258-261
44	Moveable Inspection Ball Simulation for Pipe Leakage Detection using an Acoustic Sensor	262-267
45	Human Activity and Gesture Recognition based on WiFi	268-273
46	Performance Study of Mobile Edge Computing	274-280
47	Powerful Maximum Power Point Tracking for PV Systems: An Artificial Intelligence Paradigm	280-286

2022 Iraqi International Conference on Communication & Information Technologies (IICCIT), Basrah University , Basrah-Iraq

No.	Paper Title	Page No.	
48	Prolong Sensor Node Life Time Based on Energy and Temperature in WBSN	287-292	
49	Radio Spectrum Predicts Primary User Transmission Status Over The Licensed Band	293-297	
50	GPU-Based Multiple Face Recognition Using YOLOv5x	298-302	
51	RSA-based Encryption Algorithm for Digital Images	303-308	
52	Skin Diseases Classification using Deep Convolutional Neural Network	309-315	
53	The Evaluation of Cascade Object Detector in Recognizing Different Samples of Road Signs	316-321	
54	The Enrichment Of MVSA Twitter Data Via Caption-Generated Label Using Sentiment Analysis	322-327	
55	Traffic Signs Detection and Recognition Using A combination of YOLO and CNN	328-334	
56	Recent Developments Used for Early Detection of Diabetic Macular Edema by Retinal Images: A survey	335-341	
57	Transmission Performance of P2MP Optical Networks Incorporating Digital MSC Direct-Detection Scheme	342-347	
58	Ultra-wideband Supercontinuum Generation through Liquid Core Photonic Crystal Fiber	348-353	
59	New Architecture for Multi-stage Interconnection network with QCA	354-360	
60	Using Efficient IoU loss function in PointPillars Network For Detecting 3D Object	361-366	
61	Vehicular Ad-hoc Network (VANET) – A Review	367-372	
62	Wire-Surface Wave NoC Architecture for Seamless on/off-chip Interconnect	373-378	
Keynotes and Special Events			
63	Integrative Blockchain AI Ecosystem	379	
64	The Evolution of AI in Plagiarism Detection	380	
65	Real-Time Deep Learning Platforms	381	
66	Author index		