

2022 8th International Conference on Contemporary Information Technology and Mathematics (ICCITM 2022)

**Mosul, Iraq
31 August – 1 September 2022**



**IEEE Catalog Number: CFP22AZ6-POD
ISBN: 979-8-3503-3487-6**

**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:	CFP22AZ6-POD
ISBN (Print-On-Demand):	979-8-3503-3487-6
ISBN (Online):	979-8-3503-3486-9

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 Contents

No.	Title of Papers	Page No.
1.	Prospects and Challenges of the Cloud of Things in Telemedicine	1-7
2.	A Survey on Real Time Cloud-based Robotics Systems	8-13
3.	Scraping Google Scholar Data Using Cloud Computing Techniques	14-19
4.	On the Use of Virtual Reality in Visualizing Interactive Network Models for Big Data	20-24
5.	Behavioral Features of Users as a Security Solution in Cloud Computing	25-29
6.	Design and Implementation of Smart Greenhouse and Experiment in Strawberry Cultivation	30-33
7.	Capacity and Throughput Enhancement for Minimum Distance Using D2D Scheme with TCP for 5G System	34-38
8.	Exploring Attitudes Concerning the Applying of Mobile Learning in Technical Education with Responsibility and Generativity	39-45
9.	Selecting Embedded Feature Modeling with Software Product Line for Smart Home Applications	46-52
10.	The Data Stream Principles, Tools and Applications: A Review	53-58
11.	Based Complex Key Cryptography: New Secure Image Transmission Method utilizing Confusion and Diffusion	59-65
12.	Machine Learning for Software Vulnerability Detection: A Survey	66-72
13.	Challenges Performance Facing Global Virtual Teams In Global Software Development: Literature Review	73-78
14.	Classification of Written and Spoken Arabic Letters based on Deep Learning	79-84
15.	Brain Tumor Segmentation Utilizing Generative Adversarial, Resnet and Unet Deep Learning	85-89
16.	Medical Images Classification Using hybrid deep learning CNN-PSO-GA	90-95
17.	Efficiency and Effectiveness in Utilizing Blended Learning in Context Aware Ubiquitous Learning Systems	96-100
18.	Intelligent system for Classification ECG Based on Convolutional Neural Networks (CNN)	101-106
19.	An Intelligent Approach for Semantic Plagiarism Detection in Scientific Papers	107-112
20.	The Prediction of COVID-19 Virus Mutation Using Long Short-Term Memory	113-118
21.	Physics-informed neural networks and their implementation in MATLAB	119-123
22.	A Novel Network Model for Artificial Intelligence Algorithms	124-129
23.	Designing self-managed e-classroom	130-134
24.	Early Detection of Diabetic Retinopathy Using ResNet50	135-139
25.	Machine Learning Based Classification of Multicomponent Shape Descriptors	140-145
26.	Application of Convolution Neural Networks and random forest for software test	146-152
27.	An Overview of Machine Learning Approaches to Software Development Cost Estimation	153-158

No.	Title of Papers	Page No.
28.	A Survey on Event Extraction from Webpage	159-164
29.	Software effort estimation Based on long short-term memory and stacked long short-term memory	165-170
30.	Incoming and outgoing mail tracking system using barcode	171-175
31.	Software Quality Measurement Analysis based on Techniques, Criteria, Metrics, Models, and Datasets	176-181
32.	Robust Sign Language Interpreter for Deaf Persons	182-187
33.	LSTM Neural Network for Parkinson's Disease Analysis	188-191
34.	A Survey Study on extracting Trending Topics from Textual Data	192-196
35.	Machine Learning based – system for Prediciting Mastitis in Dairy Cows	197-201
36.	Improvement of Semantic-BERT Model with Bidirectional LSTM for Arabic Language	202-207
37.	Real-Time data packet scheduling in WSNs: An overview	208-215
38.	Design and implementation of a Scheduling Meeting System using Mobile Agent	216-221
39.	A Safe Distance Monitoring System with an Ultrasonic Range Detector Sensor	222-226
40.	Investigation Malware Analysis Depend on Reverse Engineering Using IDAPro	227-231
41.	Design and Implementation a Multi-Rhombus Patch Fractal Antenna Structure for Human Wearable Device	232-236
42.	SimonChaotic: An enhancement of SIMON block cipher by using Arnold and Henon chaotic maps	237-242
43.	A Frequency reconfigurable monopole antenna Diversity for 5G wireless communication and IoT applications	243-248
44.	Image encryption algorithm based on a novel 5d chaotic system	249-255
45.	BER Enhancement of M-ary BPSK Multi-Codes CDMA system Based on ACO Optimization Algorithm	256-261
46.	Design a CPW-Fed Circular Polarization Printed Antenna for 5G Sub-Band Applications	262-266
47.	Detection Mechanisms for Peer-to-Peer Botnets: A Comparative Study	267-272
48.	Traffic-aware QoS guaranteed SDN/NFV-5G Network with Multi-Layer Network Slicing and Resource Allocation	273-277
49.	Improved UWB Antenna for 5G System Using Meta-Materials	278-283
50.	PAPR Performance Analysis of SC-FDMA and SC-FDMA-DSCDMA	284-289
51.	Improve Compression Data Using Serial Combination Techniques	290-293
52.	Ad-hoc Mobile Network Performance Evaluation Using Throughput and Delay for Different Routing Protocols Mahmood	294-299
53.	Lightweight Encryption for IoT Using Dynamic Stream Key Amjad	300-305
54.	Modification to Queueing System M/M/1 with Blum-Blum-Shub Generator	306-311
55.	A Brief Review of Advanced Monitoring Mechanisms in Peer-to-Peer (P2P) Botnets	312-317
56.	Wireless Sensor Networks Designs and Protocols: A Survey	318-323

No.	Title of Papers	Page No.
57.	Coverless Message Hiding Technique based on Eye Blinking	324-328
58.	Handwritten Text Recognition Using CRNN	329-334
59.	A Systematic Literature Survey of Emotion Detection of Students in E-learning	335-340
60.	Detection and Classification of Melanoma by Analysis of Skin Lesions Using Teledermatology	341-346
61.	Applying Template Matching Technique for Distortion Removing from Photography	347-351
62.	Gene Expression Dataset Classification Using Machine Learning Methods: A Survey	352-357
63.	Implementing a Novel Low Complexity CNN Model for Brain Tumor Detection	358-363
64.	Dynamic Iris-based Key Generation Scheme during Iris Authentication Process	364-368
65.	A New Simple 6D Hyperchaotic System with Non-Hyperbolic Equilibrium and Its Electronic Circuit	369-374
66.	Extra Quasi-Newton Equation for Unconstrained Optimization	375-379
67.	Involving New Coefficients Conjugate Gradient Method for Restoring Distorted Images	380-384
68.	Pediment New Parameters for a Conjugate Gradient Method And Using it in Restoring Distorted Images	385-390
69.	A New Reliable Computational Technique for Solving Linear and Nonlinear Wave-Like Equations	391-397
70.	New Improvement for Successive Approximation Method	398-403
71.	Deep Feature Selection Model Based on Convolutional Neural Network and Binary Marine Predator Algorithm	404-409
72.	Truncated Rayleigh Odd Weibull Exponential Distribution with Application to COVID-19 Data	410-416
73.	Solving Ordinary Differential Equations with Variable Coefficients by Using the SEJI Transform	417-420
74.	Solving the Delay Differential Equations by Using the SEJI Integral Transform	421-424
75.	Analysis of Stability and Chaos of Discrete Time System with Local Bifurcation	425-429
76.	Robust Cox-Regression and Bootstrap to Estimate Breast Cancer Patients Model in Nineveh Province	430-436
77.	Construction of Marshall-Olkin Lindley Distribution with Application	437-441
78.	Parameters Estimate of Step-Stress in Accelerated Life Tests of Exp. Distribution with Type I Censor	442-446
79.	Estimation of Rayleigh Process Parameters Using Classical and Intelligent Methods with Application	447- 452
80.	A New Biased Stochastic Estimator for The Regression Model When There Are Problems of Multicollinearity and Heterogeneity	453-458

No.	Title of Papers	Page No.
81.	Using TGARCH and ARMA-GARCH Models to Predict the Volatility in OPEC Oil prices	459-465
82.	An innovative Approach to Predict Stock Prices at Stock Exchange Markets by Using Multi-Linear Heavy Tails Regression Model Based on Genetic Algorithm	466-471
83.	A New Almost Unbiased Estimator for Linear Regression Model In Heteroscedastics or Correlated Errors	472 -477
84.	An Application of Dirac's Delta Function in Bivariate Beta-Gamma Distribution	478-481
85.	A Comparative Study Among Some Natural-Inspired Optimization Algorithms	482-488
<i>Keynotes and Special Events</i>		
86.	Keynote 1	489
87.	Keynote 2	490
88.	Author index	