2021 7th International Conference on Contemporary Information Technology and Mathematics (ICCITM 2021)

Mosul, Iraq
25 – 26 August 2021

IEEE Catalog Number: CFP21AZ6-POD
ISBN: 978-1-6654-2033-4

Copyright © 2021 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: CFP21AZ6-POD
ISBN (Print-On-Demand): 978-1-6654-2033-4
ISBN (Online): 978-1-6654-2032-7

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

Table of Contents

No.	Title of Papers	Page No.
1-	Real-Time Big Data Analytics Perspective on Applications, Frameworks and Challenges	1-6
2-	Real-Time Routing for Internet of Things: A Survey on Techniques and Protocols	7-12
3-	Contagious Patient Tracking Application Spotlight: Privacy and Security Rights	13-18
4-	Predicting QoS for Web Service Recommendations Based on Reputation and Location Clustering with Collaborative Filtering	19-25
5-	Anomaly Detection in Flight Data Using Naïve Bayes Classifier	26-30
6-	Extended Range Evaluation of a BLE Mesh Network for Control Application	31-35
7-	Multiclass Model for Quality of Web Service Using Machine Learning and Cloud Computing	36-41
8-	Classification Personality Traits by Using Pretrained Deep Learning Models	42-47
9-	Design and Analysis of Intelligent Energy Management System based on Multi-Agent and Distributed IoT: DPU Case Study	48-53
10-	Improved Assessment of HPA by Using Volterra Series and FIR Filter	54-57
11-	A Comparative Study of Algorithms of Software Effort Estimation for the Robotic and Communication Systems Based on Improved Accuracy	58-62
12-	Detection of Spliced Images in Social Media Application	63-68
13-	IoT Application-Specific for Supervising and Enquiring Industrial Devices	69-74
14-	The ECG data Compression by Discrete Wavelet Transform and Huffman Encoding	75-80
15-	Cohesive Summary Extraction from Multi-Document Based on Artificial Neural Network	81-87
16-	Use Crowdsourcing in Software Engineering for the development of the website	88-92
17-	State of Art Survey for Deep Learning Effects on Semantic Web Performance	93-99
18-	On the Performance of Multi-User Massive MIMO over Mmwave Channels	100-105
19-	Using Software Defined Network (SDN)Controllers to Enhance Communication Between Two Vehicles in Vehicular Ad Hoc Network (VANET)	106-111
20-	Evaluation and Implementation of Malware Classification Using Random Forest Machine Learning Algorithm	112-117

No.	Title of Papers	Page No.
21-	Intelligence and Electronic Warfare: Challenges and Future Trends	118-123
22-	Cyberwarfare Techniques: Status, Challenges and Future Trends	124-129
23-	An Improvement on Leach Protocol for Wireless Sensor Network	130-134
24-	Design and Implementation of High Performance 2D NoC Based on New Proposed Router Using FPGA	135-140
25-	The Protection of LAN Using Semantic Firewalls	141-145
26-	Robust Image Encryption Based on Double Hyper Chaotic Rabinovich System	146-152
27-	Deep Learning Model for IDS in the Internet of Things	153-159
28-	Credit Card Fraud Detection in Financial Transactions Using Data Mining Techniques	160-166
29-	Attacks Classification for SANET Based on Convolutional Neural Networks	167-172
30-	Energy Aware Nature Inspired Routing for Wireless Sensor Networks	173-178
31-	Generating Digital Images of Skin Diseases Based on Deep Learning	179-184
32-	Face Direction Estimation Based on Mediapipe Landmarks	185-190
33-	Enhancing Spatial Characteristics of Satellite Images	191-196
34-	Face Identification Under Disguise and Makeup Based on Hybrid Deep Learning	197-202
35-	Enhancement of Daytime Crescent Image Using Wiener Filter Based De-Blurring Technique	203-206
36-	2D Cubic Spline Transformation with 3D Binary Image for a New Watermarking Algorithm	207-212
37-	A Review on Image Processing Based Neonatal Jaundice Detection Techniques	213-218
38-	Object Recognition System for Autonomous Vehicles Based on PCA and 1D-CNN	219-225
39-	A New Hybrid Pigeon-Inspired Optimization Algorithm for Solving Multidimensional Knapsack Problems	226-229
40-	Analytical Treatment to Find Stability of the System of Partial Equations Arising from Heat Transfer on a Porous Plate	230-234
41-	On Ici-Open Sets in Topological Spaces	235-238
42-	A Modified Sufficient Descent Spectral Conjugate Gradient Method for Minimization	239-242
43-	Solving Population Growth and Decay Problems Using Complex SEE Transform	243-246

No.	Title of Papers	Page No.
44-	Employing HMM in Recognition Protein Coding Genes for the Mitochondrial Respiratory Chain	247-250
45-	Solving Abel's Integral Equation Using (Sadiq-Emad-Eman) Transform	251-254
46-	Box-Cox Risti´c-Balakrishnan Odd Burr III-G Family of Distributions: Properties and Application	255-260
47-	Finding the Fuzzy Critical Path with Octagonal Fuzzy Numbers using Linear Programming Model	261-266
48-	Deep Radial Basis Function Networks	267-273
49-	Modifications of Hestenes and Stiefel CG Method for Solving Unconstrained Optimization Problems	274-278
50-	Numerical Solution of Initial Value Problems of Time-Fractional Order via a Novel Fractional 4-Stage Runge-Kutta Method	279-284
51-	A Quantitative Spatial Risk Measure for Extreme Events	285-290
52-	Estimating the Rate of Occurrence of Geometric Process with Exponential Distribution	291-297
53-	Parameters Estimation for Modified Weibull Distribution Using Some Methods of Estimators with Simulation	298-302
54	T-Extending Semimodule over Semiring	303-308
55-	Employing the Social Group Optimization Algorithm to Find the Best Hyper Parameters of Support Vector Machine	309-314
56-	Generalizing the Conjugate Lindley's Utility Function to Estimate the Multi Parameter Distributions Parameters	315-321
57-	Study of the Factors Affecting the Incidence of COVID-19 Infection Using an Accelerated Weibull regression model	322-327
58-	Exact Recovery of Two-Latent Variable Stochastic Block Model with Side Information	328-334
Keynotes and Special Events		
59-	Integration of Big Data, IoT and Cloud Computing	335-336
60-	Mathematics and Cryptography	337-339
61-	Author index	