

2020 International Conference on Advanced Science and Engineering (ICOASE 2020)

**Duhok, Iraq
23-24 December 2020**



**IEEE Catalog Number: CFP20P93-POD
ISBN: 978-1-6654-4693-8**

**Copyright © 2020 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:	CFP20P93-POD
ISBN (Print-On-Demand):	978-1-6654-4693-8
ISBN (Online):	978-1-6654-1579-8

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	Enhance the Performance of Independent Component Analysis for Text Classification by Using Particle Swarm Optimization	1-6
2	Effective Computational Techniques for Generating Electroencephalogram Data	7-11
3	A Fusion Scheme of Texture Features for COVID-19 Detection of CT Scan Images	12-17
4	Fake News Detecting Using Machine Learning and Deep Learning Algorithms	18-23
5	Computerized Morphometric Characteristics of Gebel Watershed	24-30
6	Cognitive Radio Network Security Enhancement Based on Frequency Hopping	31-36
7	Privacy Preserving Association Rules Based on Compression and Cryptography	37-42
8	Harmonic Elimination of D.C to A.C Converters Using Embedded Design Techniques	43-48
9	Development of Synthesis of Granular ZSM-5 with a Hierarchical Porous Structure	49-52
10	A Comparative Study Using LZW with Wavelet or DCT for Compressing Color Images	53-58
11	Mini Jarvis Patrick -Based Graph Clustering for Scientific Institutions	59-64
12	Selective Crystallization of Highly Dispersed Silicoaluminophosphate SAPO-11	65-68
13	SAARSNet: A Deep Neural Network for COVID-19 Cases Diagnosis	69-73
14	ECN-Marking with CoDel and its Compatibility with Different TCP Congestion Control Algorithms	74-79
15	A Correlation Analysis Between ISO 25010 based Modularity and CK Metrics in Object-Oriented Software	80-85
16	Data Security System for IoT Applications	86-91
17	Hate Speech Detection Using Genetic Programming	92-96
18	Video Delivery Based on Random Linear Network Coding	97-102
19	Twitter Sentiment Analysis using an Ensemble Weighted Majority Vote Classifier	103-109
20	COVID-19 Diagnosis from Chest X-ray Images Using Deep Learning Approach	110-116

21	Trust evaluation model based on statistical tests in social network	117-121
22	Quality Assessment of Reinforcing Steel Used in Residential Building in Duhok City at Kurdistan – Iraq	122-126
23	Queuing Theory Model of Expected Waiting Time for Fast Diagnosis nCovid-19: A Case Study	127-132
24	Biometric Signature based Public Key Security System	133-138
25	Transcript Validation System using biometric characteristics	139-144
26	Single Heartbeat ECG Biometric Recognition using Convolutional Neural Network	145-150
27	A Review of Security Awareness Approaches With Special Emphasis on Gamification	151-156
28	Brain Tumor Detection and Classifiaction Using CNN Algorithm and Deep Learning Techniques	157-161
29	Email Common Weaknesses and Enumeration Through Software Customer Perspective	162-167
30	Semantic Document Clustering using K-means algorithm and Ward’s Method	168-173
31	Distributed Denial of Service Attack Mitigation using High Availability Proxy and Network Load Balancing	174-179
32	A systematic review of GIS-based landslide Hazard Mapping on Determinant Factors from International Databases	180-183
33	COVID-19 Diagnosis Systems Based on Deep Convolutional Neural Networks Techniques: A Review	184-189
34	Voltage Build-Up Behavior of Self-Excited Induction Generator Under Different Loading Conditions	190-194
35	Decision Making Approaches in Cognitive Radio- Status, Challenges and Future Trends	195-198
36	Neural Networks Architectures Design, and Applications: A Review	199-204
37	Clustering Documents based on Semantic Similarity using HAC and K-Mean Algorithms	205-210
38	Glove Word Embedding and DBSCAN algorithms for Semantic Document Clustering	211-216
	<i>Keynote Talks</i>	
39	Exploring deep learning features for automatic classification of human emotion using EEG Rhythms	217-218
40	Aplicaions of Digital Signal Processing in all sciences	219
41	Author Index	