2020 International Conference on Computer Science and Software Engineering (CSASE 2020)

Duhok, Iraq 16 – 18 April 2020



IEEE Catalog Number: ISBN: CFP20V67-POD 978-1-7281-5250-9

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:	CFP20V67-POD
ISBN (Print-On-Demand):	978-1-7281-5250-9
ISBN (Online):	978-1-7281-5249-3

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



2020 International Conference on Computer Science and Software Engineering (CSASE), Duhok, Kurdistan Region – Iraq

TABLE of Contents

No	Title of the Paper	Pages
1	Using Artificial Neural Networks to Predict Solar	1-6
1	Radiation for Duhok City, Iraq	1-0
2	IoT Based Water Tank Level Control System Using	7-12
	PLC	/ 12
3	A Secure Mechanism to Prevent ARP Spoofing and	13-19
	ARP Broadcasting in SDN	
4	Performance Investigation of Multicore Optical Interconnects for Data Centers	20-25
	A Real Time Parking Reservation System Based on	
5	Vehicular Cloud Computing	26-31
_	Iris Segmentation Approach Based on Adaptive	
6	Threshold Value and Circular Hough Transform	32-37
-	Performance Enhancement of Oil Pipeline Monitoring	29.42
7	for Underwater Wireless Sensor Network	38-43
8	Analyzing Factors That Influence Alumni Graduate	44-49
0	Studies Attainment with Decision Trees	++-+9
9	Facial Features Extraction Using LBP for Human Age	50-55
	Estimation Based on SVM Classifier	
10	Enhancement Framework of Semantic Query	56-60
11	Expansion Using Mapped Ontology	(1.((
11	A Secured Method of Reversible Data Hiding	61-66
12	A Safest Flight Path Approach to Avoid Atmospheric Weather Impacts	67-71
	An Automated Vertebrate Animals Classification	
13	Using Deep Convolution Neural Networks	72-77
	Tracking Ball in Soccer Game Video Using Enhanced	7 0.0 2
14	Kalman Filter	78-82
15	Model of Faculty Experience in E-Learning Student	83-87
15	Satisfaction	03-07
16	The Impact of Filter Size and Number of Filters on	88-93
	Classification Accuracy in CNN	
17	Fuzzy Logic Controller Based Shunt Active Power	94-99
10	Filter for Current Harmonic Compensation	100, 105
18	Spyware Injection in Android Using Fake Application	100 -105
19	Image Denoising in Wavelet Domain Based on Thresholding with Applying Wiener Filter	106-111
20	Algorithms of Experimental Medical Data Analysis	112-116
20	Performance Evaluation of Novel Dual Polarization	112-110
21	Coherent Detection Optical OFDM for Next	117-122
	Generation UWOC Systems	11/ 122

No	Title of the Paper	Pages
22	Security Improvement of Cloud Storage Based on	123-127
22	Hybridity of Cryptography and Steganography	125-127
23	Landsat Time-Series for Land Use Change Detection	
	Using Support Vector Machine: Case Study of	128-131
	Javanrud District, Iran	
24	FPGA Implementation of Visual Speech Recognition	132-137
24	System Based on NVGRAM-WNN	132-137
25	Response Time Study of Cloud Web Application -	138-141
23	Based Smart Monitoring System	130-141
26	Three-stage Junction Detection in Document Images	142-145
27	Pectoral Muscles Removal in Mammogram Image by	146-151
21	Hybrid Bounding Box and Region Growing Algorithm	140-131
28	Optimal and near Optimal Solutions for Multi	152-156
20	Objective Function on a Single Machine	132 130
29	Speaker Verification Using Cosine Distance Scoring	157-161
	with i-vector Approach	10, 101
30	High-Spectral Efficiency Transmission Based on New	162-167
	Design of Optical Frequency Comb Generator	
31	A Survey on the Applications of Smart Home Systems	168-173
32	Triple Mobile Anchors Approach for Localization in WSN	174-179
33	An Efficient Scheme of Digital Image Watermarking Based on Hessenberg Factorization and DWT	180-185
34	Effective and Fast DeepFake Detection Method Based on Haar Wavelet Transform	186-190
	Human Speech and Facial Emotion Recognition	
35	Technique Based on SVM	191-196
	Teeningue Dased on S V M	197-202
36	SAR Image Denoising Based on WB-Filter	197-202
37	Design and Fabrication of GPS Microstrip Antenna	203-208
38	A New Smart Waste Managing System	209-214
39	Implementing a Super Decisions Software (SDS) in a Transport Sector	215-220
40	A Genetic Algorithm for Solving an Optimization	221-225
	Problem: Decision-Making in Project Management	
41	Network-Based Model for Dissemination of Advertising	226-231
42	Hybrid Chaotic Scheme for Secure OFDM-PON Transmission	232-237
43	Wirelessly Indoor Positioning System Based on RSS	238-243
	Signals	230 273
44	Improving Louvain Algorithm by Leveraging Cliques	244-248
	for Community Detection	22.10
45	Font Recognition of English Letters Using Normalized	249-254
	Central Moments Features	

No	Title of the Paper	Pages
46	TQAIOD: A Backup Technique to Surpassing the Internet Outage	255-258
47	Plant Leaf Diseases Detection and Classification Using Image Processing and Deep Learning Techniques	259-265
48	Using Standard Error to Find Best Robust Regression in Presence of Multicollinearity and Outliers	266-271
49	Speed Limit Camera Monitoring/Tracking System Using SaaS Cloud Computing Module and GPS	272-277
50	Shot Boundaries Detection Based Video Summary Using Dynamic Time Warping and Mean Shift	278-283
51	Machine Learning to Derive Complex Behaviour in Agent-Based Modelling	284-289
52	Performance Evaluation of Graphical User Interfaces in Java and C#	290-295
53	Semantic Relevance Feedback Based on Local Context	296-301
54	Optic Disc Segmentation in Retinal Fundus Images Using Morphological Techniques and Intensity Thresholding	302-307
55	Performance Enhancement of Speech Scrambling Based on Many Chaotic Signals	308-313
56	Security Evaluation Methods and the used parameters for Some Cryptosystem	314-318
57	Keynote speaker-1	319
58	Keynote speaker-2	320
59	Keynote speaker-3	321
60	Author Index	A1-A3