

2019 1st International Conference on Advanced Technologies in Intelligent Control, Environment, Computing & Communication Engineering (ICATIECE 2019)

**Bangalore, India
19 – 20 March 2019**



**IEEE Catalog Number: CFP19R70-POD
ISBN: 978-1-7281-1266-4**

**Copyright © 2019 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:	CFP19R70-POD
ISBN (Print-On-Demand):	978-1-7281-1266-4
ISBN (Online):	978-1-7281-0418-8

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



DAYANANDA SAGAR INSTITUTIONS ®
DAYANANDA SAGAR ACADEMY OF TECHNOLOGY AND MANAGEMENT
(Affiliated to Visvesvaraya Technological University, Belagavi, & Approved by AICTE, New Delhi)
CSE, ISE, ECE, EEE & ME branches Accredited for 3 Years by NBA, New Delhi,
Validity: 26-07-2018 to 30-06 2021
Opp. Art of Living, Udayapura, Kanakapura Main Road, Bangalore-560082, Karnataka, India

**FIRST INTERNATIONAL CONFERENCE ON
ADVANCED TECHNOLOGIES IN INTELLIGENT CONTROL, ENVIRONMENT,
COMPUTING AND COMMUNICATION ENGINEERING (ICATIECE-2019)**

CONTENT

SL NO.	PAPER ID	TITLE	PAGE NO.
1	002	Selection of Appliance Using Skeletal Tracking and 3D Face Tracking for Gesture Control Home Automation	1-7
2	005	Comparative study of basic and hybrid filters for the reduction of noise in Estampages	8-11
3	015	Brain-computer interface: text reader for paralyzed patients	12-15
4	021	Goggle, GPS Tracker and Water Purity Detector	16-22
5	022	Wine Quality Prediction Using Data Mining	23-26
6	033	Commodity and Forex trade automation using Deep Reinforcement Learning	27-31
7	035	Smart Vehicle Driving System using Computer Vision based Hand Motion Tracking	32-34
8	043	Image Retrieval by Fusion of Features from Pre-trained Deep Convolution Neural Networks	35-40
9	048	Comparison of Support Vector Machine and Naïve Bayes Classifiers for Predicting Diabetes	41-45
10	050	Statistical Analysis of Voice Based Emotion Recognition using Similarity Measures	46-50
11	065	A Collective Study of Data Mining Techniques for the Big Health Data available from the Electronic Health Records	51-55
12	081	UIDBA: Unique Identity & Biometric Based Architecture for E-governance Solutions	56-63
13	084	A Review on Gridding Techniques of Microarray Images	64-67
14	104	Enterprise Information retrieval using Collaborative Fusion and Active Feedback	68-74

15	121	Dynamic Load Balancing Algorithm for Heterogeneous Hadoop Cluster	75-79
16	138	Fuzzified Multi-Objective Transportation Problem: A Real coded Genetic Algorithm approach to the Compromised near-to-Optimal solution	80-84
17	144	Analysis of automation in the field of Usability Evaluation	85-91
18	145	Driver Drowsiness Detection using Convolved Neural Networks	92-97
19	146	Urban Air Quality Analysis and Prediction Using Machine Learning	98-102
20	162	KweriME: A Q&A based model which predicts the accepted answers of questions in CQA sites	103-106
21	189	A Complete Optimal Solution for the Wet Garbage Recycling Plant in Apartments Cluster by Radical Multi-Objective Decision Model	107-110
22	205	A General Model for Financial Estimation Of Multi Crops And Vegetables Using Water Resources And Soil Management - A Multi Criteria Decision Approach	111-113
23	207	Alzh-care: - Knowledge - driven intelligent system to assist Alzheimer Patients	114-120
24	213	Identity Solutions for Verification using Blockchain Technology	121-126
25	214	Speculation of Forest Fire Using Spatial and Video Data	127-130
26	219	Prevention from security risks of spyware by the use of AI	131-135
27	09	Analysis on IoT Based Smart Cradle System with an Android Application for Baby Monitoring	136-139
28	018	A measurement-based traffic admission control algorithm for resource management in IP networks	140-143
29	041	A Two stage approach for Detection of Invasive and Cervical Intra-epithelial Neoplasia using Machine Learning and Image Processing Methodologies	144-150
30	054	Establishing garbage disposal unit using mathematical technique	151-154
31	061	Modified cluster based certificate blocking of misbehaving node in manets	155-161
32	080	A Framework for Enhancing the Agriculture yield using Cloud Clusters	162-166
33	087	A Closer look at the network middleboxes	167-171
34	091	On Effectiveness of Source Code and SSL Based Features for Phishing Website Detection	172-175
35	120	Novel Approaches to Enhance Wireless Sensor Network Life time by Even Distribution of Cluster Heads and Avoiding Redundant Data	176-182
36	147	A Novel Collaborative Policy Management for Android Applications	N/A

37	153	Performance Comparison of Ryu and Floodlight Controllers in Different SDN Topologies	188-191
38	155	Implementation of IOT based smart cooking environment	192-195
39	156	A blind path geographical energy aware routing protocol for wireless sensor networks	196-200
40	157	AI Poker Agent based on Game Theory	201-204
41	163	Smart Anti-Theft Door locking System	205-208
42	166	A Miniaturized antenna for Worldwide Interoperability for Microwave Access and Satellite Applications using Square Patch	209-213
43	169	Hierarchical Clustering and Regression Classification based Review analysis on Movie based Applications	214-219
44	170	Early Detection of Estrus and Heat stress using IoAHT and Analytics in Indian Cattle to overcome Repeat-Breeding-Syndrome	220-224
45	180	A Comprehensive Survey on Multi Object Tracking Under Occlusion in Aerial Image Sequences	225-230
46	200	Cloud Data Auditing Techniques with key Based homomorphic authenticator for Privacy and Security	N/A
47	203	Optimal Resource Estimation Policy Selection for Ecommerce Applications in Cloud	236-242
48	218	Object based forgery detection and localization in videos	243-247
49	012	IRNSS Receiver Position Estimation using Iterative Least Squares and Extended Kalman Filter	248-252
50	030	Impact of Process Load on Real Time System Performance	253-256
51	040	Intelligent error detection and advisory system for practitioners of music using audio signal processing and computing	257-260
52	042	Three Sigma and Multilevel Active Contour Approach to Detect Optic Disc and Optic Cup	261-264
53	055	An Agent Cluster Based Routing Protocol for Enhancing Lifetime of Wireless Sensor Network	265-268
54	060	Concatenating framework in ASD analysis towards research progress	269-271
55	074	Sign Language to Speech Conversion – An Assistive System for Speech Impaired	272-275
56	079	Design of Low Transconductance Voltage to Current Converter in CMOS	276-279
57	098	Force sensing for object grasp with fiber Bragg grating based wearable haptic device	280-283
58	101	A Multi-Resonant Microstrip Patch Antenna with Fractal Defected Ground Structure	284-286
59	115	Performance Analysis of Routing and Wavelength Assignment in Optical networks	287-290
60	149	THD Analysis with multicarrier switching for Cascaded Multilevel Inverter with reduced number of switches	291-294

61	150	Nanostructured conductive polymeric modified exfoliated graphite paper based flexible battery for wearable electronics	295-298
62	168	Multiscale Modeling using Signal Adapted Filter Bank	299-304
63	181	Customer Experience Enhancement Using Artificial Intelligence	305-309
64	187	Design and Verification of AMBA AHB	310-315
65	196	Step counting navigation assistant	316-321
66	202	Performance Comparison of Dehazing Algorithms on different platforms	322-326
67	209	Noise Removal Techniques and Qualityanalysis of X-ray Images	327-330
68	215	Hybrid Segmentation Approach to Segment Fetal Cardiac Chambers of Ultrasound images	331-334
69	216	Pre-term Neonates Cry Pattern Recognition Using Bark Frequency Cepstral Coefficients	335-338
70	008	Energy efficient LED lighting design for horticulture	339-342
71	014	Symmetrical and Asymmetrical Fault Analysis of Transmission Line with Circuit Breaker Operation	343-347
72	036	Nonlinear controllability analysis of DC-DC converters using Lie Algebraic method	348-354
73	095	AGC and AVR implementation in a deregulated power system using optimized controller with Renewable integrated DC link	355-364
74	111	Advanced verification of Single precision floating point ALU	365-368
75	113	A Review on Improvement of Power Quality and Performance using LVRT for Grid Connected Solar Farms with Split TCSC	369-371
76	140	Effect of Equivalent Electrical Distance and Voltage Stability Improvement Using DSTATCOM in Radial Distribution System	372-377
77	152	Design of Fixed gain Rotor Oscillations Controller Using State Space Modeling	378-382
78	184	Optimized voltage and frequency controlin off-grid Power System	383-388
79	188	Comparision of MultiLevel Inverter using Reverse Voltage Topology for Multiple Loads	389-392
80	025	Modeling of output characteristics of a LPG - Diesel Dual Fuel Engine with EGR using ANFIS and EFuNN	N/A
81	047	Modeling and Analysis of NASA Stator 67B Aerofoilby using Finite Element Method and Comparative studies with Q11, MCDA Aerofoils	N/A
82	049	Analysis of Penstock Wye Piece bifurcating	N/A
83	051	Development of alumina filled Bamboo fiber epoxy Composites and investigation on mechanical Properties	N/A

84	059	Free Vibrational Study on Woven Basalt Fibre - Vinyl Ester Reinforced Composite Plates	N/A
85	064	Fabrication and Study on Tribological and Mechanical Behavior of Al6061 hybrid Metal Matrix Composites	N/A
86	071	Evaluation of Mechanical Properties of Aluminium Hybrid MMCs	N/A
87	076	Elasto thermal analysis Justification of The Root End Fixed Fairing D-Nose Skin Assembly SubjectedTo Flight Loads	N/A
88	093	Directional influences of nano-alumina on the mechanical properties of the UD-GFRP laminate	N/A
89	165	Evaluation of out of plane shear mode energy release in GFRP Structure	N/A
90	190	Study of the Wear behavior of Aluminum alloy LM12 /Sic metal matrix composites Fabricated by using stir casting methods	N/A
91	194	Feature Identification using Guided Waves on Welded Tracks Utilizing Wavelet signal decomposition	N/A
92	204	Reliability of a Mechanical System with k-out-of-n subsystems	N/A
93	208	Studies on Microstructure and Wear Behaviour of Tungsten Disulphide Reinforced Al7010 Aluminum MMC's	N/A
94	211	Biodegradable molecularly imprinted polymer coated expanded graphite nano-composite based flexible sensor for neural tube defects	N/A
95	011	Watershed wise evaluation for ascertaining environmental sustainability and health aspects by modeling for soil erosion and water quality	N/A
96	072	Quantifying the significance of urban green spaces on community health	N/A
97	078	Modelling Groundwater flow and solute transport	N/A
98	090	Study of Mechanical Properties of Rammed Earth Blocks Using Natural Coconut Fibers	N/A
99	117	Experimental studies on mechanical properties of geopolymer concrete	N/A
100	130	Studies on Laboratory Performance on Bio-Enzyme Stabilised Soil	N/A
101	137	Treatability of Hospital Wastewater Using Iron Electrodes in Electrocoagulation Method	N/A
102	151	Effect of Bamboo Fiber and C&D waste on Moisture content and Compressive Strength Relationship for Cement Stabilised Rammed Earth	N/A
103	167	Load-Deflection Behaviour of Concrete-Filled Steel Tube Columns under Axial Loading	N/A
104	178	Environmental Sustainability and Socio-Economic Impact of Metro rail project in Bangalore	N/A
105	183	“SAND MINING in Kanva River” and its Environmental impact studies,Part of Cauvery Basin, Karnataka, India	N/A