

**2017 International Conference on
Infocom Technologies and
Unmanned Systems
(Trends and Future Directions)
(ICTUS 2017)**

**Dubai, United Arab Emirates
18 – 20 December 2017**



**IEEE Catalog Number: CFP17M24-POD
ISBN: 978-1-5386-0515-8**

**Copyright © 2017 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:	CFP17M24-POD
ISBN (Print-On-Demand):	978-1-5386-0515-8
ISBN (Online):	978-1-5386-0514-1

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

Contents

List of Keynote/Invited Speakers

Acknowledgement

ICTUS'2017 Conference Committees

Editorial Board

KEYNOTE ADDRESSES/INVITED TALKS

1. **Quantitative OSS Project Assessment Based on Process Capability Index** 1
Shigeru Yamada, Yoshinobu Tamura
2. **Verifying Next Generation Electronic Systems** 6
Rolf Drechsler, Daniel Große
3. **Deflected Field-of-Views Receiver for Indoor MIMO Visible Light Communications**11
Jian Song, Ling Wei, Hongming Zhang
4. **Ongoing Research Agenda on the Internet of Things (IoT) in the Context of Artificial Intelligence (AI)** 18
Prof. Zakaria Maamar
5. **A Simulation System for Autonomous Carts** 19
Boumediene Belkhouche, Abderrahmane Lakas
6. **User Based Fault Detection, Vulnerability Discovery and Patching: An Interdisciplinary Research** 27
P.K. Kapur
7. **Conflicts between Quality Management Methods**..... 34
Dr. Yury Klochkov
8. **One-class Classification in Multimodal Biometric Authentication**..... 37
Panos Liatsis, Quang Duc Tran
9. **Technology in Use: The Importance of Good Interface Design**43
Andrina Granić
10. **Data-Driven Decision Making** 50
Mario José Diván
11. **Fault Localization Models in Debugging**..... 57
Prof. Safeullah Soomro
12. **Medical Image Analysis and Surgical Simulation – AI and VR Applications for Medicine** 63
Prof. Pheng Ann Heng
13. **Challenges for Test and Fault-Tolerance due to Convergence of Electronics, Semiconductor Systems and Computing** 64
Prof. Afaq Ahmad
14. **Overview of Humidity Driven Reliability Issues of Electronics** 69
Prof. Rajan Ambat

15. Resource and Energy Management in High-Performance Computing: From Heterogeneous to Exascale Systems	70
<i>Prof. Ishfaq Ahmad</i>	
16. Automatic Measurement of User Interface Quality	71
<i>Tarik Ozkul</i>	
17. UML/OCL or Object-Z?	78
<i>Mohamed Bettaz, Mourad Maouche</i>	
18. On the Benefits of Using Aspect-Orientation in UPPAAL Timed Automata	84
<i>Jüri Vain, Dragos Truscan, Junaid Iqbal, Leonidas Tsiopoulos</i>	
19. Neuro Adaptive Control of Nonlinear Processes	92
<i>Prof. Milorad Božić</i>	
20. Automatic Text Summarization Approaches.....	93
<i>Ahmad T. Al-Taani</i>	
21. Innovative Applications of Artificial Intelligence in Software Engineering.....	95
<i>Masoud Mohammadian</i>	
22. New Realization Methods of Frequency Agile Filters for Encrypted Communications and Multi-Standard Transceivers.....	97
<i>Ersin Alaybeyoğlu, Hakan Kuntman</i>	
23. Autonomous Demand-Side Management System for Peak Shaving and Energy Optimization in Electricity Distribution Networks.....	111
<i>Adrián Will</i>	
24. Early Detection of Lung Cancer based on Artificial Intelligence Techniques.....	112
<i>defined. Dr. Fatma Taher</i>	
25. A5-Based GSM Cryptosystem Implementation and Analysis.....	113
<i>Dr. Daniel Okunbor</i>	
26. On Bayesian Inference of Software Reliability Measurement.....	114
<i>Shinji Inoue, Shigeru Yamada</i>	
27. Two-Dimensional Software Reliability Growth Modeling Based on a CES Type Time Function.....	118
<i>Yuka Minamino, Shinji Inoue, Shigeru Yamada</i>	

TECHNICAL SESSIONS

SOFT COMPUTING AND BIG DATA ANALYTICS

1. A Big Data Framework for Diabetes in Mauritius.....	126
<i>Ravesh Joaheer, Soulakshmee D. Nagowah</i>	
2. Behavioural Similarity Analysis for Supporting the Recommendation in PAbMM.....	133
<i>Mario José Diván, María Laura Sánchez Reynoso</i>	
3. The Study of Data Analytics in Inventory Management.....	140
<i>Mansi Khurana, Deepak Kumar</i>	
4. Sentiment Analytics Framework Integrating Twitter and Odoo ERP.....	145
<i>Hirikesh Dussoye, Zarine Cadarsaib</i>	

5.	Unified Ontology for Data Integration for Tourism Sector.....	152
	<i>Chhavi Virmani, Sapna Sinha, Sunil Kumar Khatri</i>	
6.	Tweet Normalization: A Knowledge Based Approach.....	157
	<i>Itisha Gupta, Nisheet Joshi</i>	
7.	Political Opinion Mining Using E-social Network Data.....	163
	<i>Deepak Soni, Mayank Sharma, Sunil Kumar Khatri</i>	
8.	Data Mining on Social Networks for Target Advertisement in Automobile Sector.....	166
	<i>Sudhanshu Chhabra, Renuka Mahajan, Sunil Kumar Khatri</i>	
9.	Optimizing Search Query Using Feature Thesaurus and Optimizaton Tool.....	171
	<i>Sunil Kumar Khatri, Tanmay Batham, Prashant Johri</i>	
10.	Cloud Attenuation Model at Millimeter Frequency Bands.....	175
	<i>Hitesh Singh, Boncho Bonev, Peter Petkov, Sarang Patil</i>	
11.	Prediction for Big Data and IoT in 2017.....	181
	<i>Anmol Singh Chhabra, Tanupriya Choudhury, Arjun Vaibhav Srivastava, Archit Aggarwal</i>	

RECENT ADVANCES IN NETWORKING TECHNOLOGIES AND DATA SCIENCE

12.	Wavelet based Human Voice Identification System.....	188
	<i>Maryam Mohammed Mubarak al Balushi, Vidhya Lavanya R, Sreedevi Koottala, Ajay Vikram Singh</i>	
13.	A Study on Implementation of Smart Library Systems using IoT.....	193
	<i>Jitendra Pandey, Syed Imran Ali Kazmi, Muhammad Sohail Hayat, Imran Ahmed</i>	
14.	Internet of Things: Architecture, Security challenges and Solutions.....	197
	<i>Siham Al Hinai, Ajay Vikram Singh</i>	
15.	Active Learning and Student Engagement using Activity Based Learning.....	201
	<i>M. Hayat, Raza Hasan, S. Imran Ali, Mohammed Kaleem</i>	
16.	A Conceptual Framework on IOT based System Design to Prevent Road Accidents in Accident Prone Cities.....	205
	<i>Shaik Mazhar Hussain, Kamaludin Mohamad Yusuf, Shaik Ashfaq Hussain</i>	
17.	Economic Hurdle for Implementation of Cloud Computing in Higher Education in Sultanate of Oman.....	211
	<i>Anjum Zameer, Bilal Ahmad Pandow, Baldev Singh</i>	
18.	Building an Effective Recommender System Using Machine Learning Based Framework.....	215
	<i>Ruchika, Ajay Vikram Singh, Mayank Sharma</i>	

MODELING, DATA ANALYTICS AND TESTING

19.	The Design and Modeling of Wideband Calculable Standard Rod-Dipole reference Antenna for Broad Bandwidth Applications.....	220
	<i>Sarang Patil, Peter Zhelev Petkov, Boncho Georgiev Bonev, Hitesh Singh</i>	
20.	Design of an Array Antenna for 5G Wireless Network with Enhanced Bandwidth.....	225
	<i>Sarmistha Satrusallya, Mihir Narayan Mohanty</i>	
21.	Hydra – Anonymous Network Routing Mechanism.....	230
	<i>Mrinal Wahal, Tanupriya Choudhury</i>	

22.	A Framework of Innovation Driven Eco-system for Dubai.....	236
	<i>Sadia. Riaz, Arif. Mushtaq</i>	
23.	Forecasting PV Power from Solar Irradiance and Temperature using Neural Networks.....	244
	<i>Swaroop Ramaswamy, Pradip Kumar Sadhu</i>	
24.	Allocating Resource Dynamically in Cloud Computing.....	249
	<i>Praveen Kumar, Priyavrat Singh Yadav, Kashish Bhutani, Nagma Arora, Deepanshu Jain, Bhawesh Dabas</i>	
25.	Rendering Trustability to Semantic Web Applications-Manchester Approach.....	255
	<i>Mrinal Pandey, Rajiv Pandey, Umesh Kumar Chopra</i>	
26.	A Ternary Subdivision Scheme for Generating Trigonometric Splines and Its Application to Geometric Modeling.....	260
	<i>Sunita Daniel</i>	

EMERGING TRENDS IN INFOCOM TECHNOLOGY AND MANAGEMENT

27.	A Bat Algorithm for Job Scheduling in Ceramics Production Lines.....	266
	<i>Manuel Tupia, Rony Cueva, Miguel Guanira</i>	
28.	Clustering and Ranking Social Media Users Based on Temporal Analysis.....	271
	<i>Harish Kumar, Harsimar Kaur</i>	
29.	Evaluating Satisfaction Level of Grocery E-Retailers Using Intuitionistic Fuzzy TOPSIS and ECCSI Model.....	276
	<i>Kumari Anshu, Loveleen Gaur, Deepak Khazanchi</i>	
30.	Scale Development and Factorial Analysis of Shared leadership in the Context of Indian IT Sector.....	285
	<i>Alka Agnihotri, Shikha Kapoor</i>	
31.	Survey of the State of Art Based on PICOC about the Use of Artificial Intelligence Tools and Expert Systems to Manage and Generate Tourist Packages.....	290
	<i>Mariuxi Bruzza, Amparo Cabrera, Manuel Tupia</i>	
32.	Fuzzy Rule Base Solution of Bi-Criterion Software Release Time Problem.....	297
	<i>Shubhra Gautam, Deepak Kumar, L.M. Patnaik</i>	
33.	Modelling Fault Detection with Change-point in Agile Software Development Environment.....	303
	<i>Abhishek Srivastava, P.K. Kapur, Deepti Mehrotra</i>	
34.	Severity Measure of Issues Creating Vulnerabilities in Websites Using Two Way Assessment Technique.....	309
	<i>Swati Narang, P.K. Kapur, D. Damodaran</i>	
35.	Diffusion of Industry 4.0 in Manufacturing Sector - An Innovative Framework.....	317
	<i>Nitin Sachdeva, Rajat Kumar Obheroi, Abhishek Srivastava, Nehal S.K.</i>	

RECENT ADVANCEMENTS IN COMPUTING, BIG DATA (RAICBD)

36.	An Ensemble Classification Approach to Motor-Imagery Brain State Discrimination Problem...322
	<i>Ankita Datta, Rajdeep Chatterjee, Debarshi Kumar Sanyal, Dibyajyoti Guha</i>
37.	Cloud Application Integration Methodology using Enterprise Application Integration.....327
	<i>Rajneesh Mungrah, Zarine Cadarsaib</i>

38.	Data Mining and Web-Based Reporting Software for Power, IR Drop and EM Analysis in VLSI Design.....	334
	<i>Qing Zhu</i>	
39.	Design of Compact Wearable Antenna for Bandwidth Enhancement.....	341
	<i>Mihir Narayan Mohanty, Vipin Gupta</i>	
40.	Web Branding Harmonizer: Need of Color Harmonies and its Solution in Website Development.....	346
	<i>Mobeen Nazar, Reema Qaiser Khan, Misbah Perveen, Wafa Qaiser Khan</i>	
41.	An Analytical Evaluation of Challenges in Green Cloud Computing.....	351
	<i>Seema Rawat, Praveen Kumar, Seemant Sagar, Iqbal Singh, Kartikay Garg</i>	
42.	Computerized Paper Evaluation Using Neural Network.....	356
	<i>Tanupriya Choudhury, Kartikeya Jain, Lakshya Aggarwal, Ayushi Gupta, Garv Saxena</i>	
43.	Inspection of Cloud Computing Monitoring Tools.....	361
	<i>Praveen Kumar, Priyavrat Singh, Sarthak Chopra, Jagmeet Singh Sarna, Krishna Rawat</i>	

INNOVATION IN SOFTWARE ENGINEERING

44.	Development of Methods for Business Modeling.....	366
	<i>Klochkov Y., Klochkova E., Kiyatkina E., Skripnuk D., Aydarov D.</i>	
45.	ETHICS and SSM - A Critical Human Element Evaluation in Software Engineering Using the NIMSAD Framework.....	370
	<i>Lipsa Sadath, Prof. Stephen Gill</i>	
46.	Managing Software Product Line using an Ontological Rule-Based Framework.....	376
	<i>Megha Bhushan, Shivani Goel, Ajay Kumar, Arun Negi</i>	
47.	Automated Complete Test Case Coverage for Web Based Applications.....	383
	<i>Leckraj Nagowah, Kreshnah Kora-Ramiah</i>	
48.	Statistical Analysis of Student Feedback System Using Cronbach's Alpha and Utility Measurement Process.....	391
	<i>Subhranil Som, Rana Majumdar, Mainak Ghosh, Chesta Malkani</i>	
49.	Non-Functional Requirement Prioritization Approach Based on Historical Similar Project.....	396
	<i>Varun Gupta, Mohd. Talha Khan, Chetna Gupta</i>	
50.	Vulnerability Prediction through Self-Learning Model.....	400
	<i>Rana Majumder, Subhranil Som, Ritu Gupta</i>	
51.	Evaluation of Imbalanced Learning with Entropy of Source Code Metrics as Defect Predictors.....	403
	<i>Kamaldeep Kaur, Jasmeet Kaur Name, Jyotsana Malhotra</i>	
52.	Towards Systematic Literature Survey of Feedback Oriented Mass Market Software Development.....	410
	<i>Varun Gupta, Soham Gupta, Chetna Gupta</i>	

EMERGING TRENDS IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

53.	Knowledge Sharing for Agile Distributed Teams: A Case Study of Mauritius.....	413
------------	--	------------

Marie Liliane Isabelle Gervigny, Soulakshmee D. Nagowah

- 54. An Efficient Influence based Label Propagation Algorithm for Clustering Large Graphs.....420**
Vandana Bhatia, Rinkle Rani
- 55. Elliptic Curve Cryptography: A Dynamic Paradigm.....427**
Subhranil Som, Rana Majumder, Sandip Dutta
- 56. Analysis of Incremental Software Projects Status in Software Industries.....432**
Varun Gupta, Mansi Bansal, Chetna Gupta, Sartaj Singh
- 57. An App for Language Learners.....436**
Saad Harous, Abdel Rahman Al Harahsheh
- 58. Alturjoman Alsagheer: Basic Language App for kids.....441**
Saad Harous, Fatima Alkhoori, Aaasha Alzaabi, Sara Al Saedi
- 59. Towards Systematic Literature Survey of Requirement
Prioritization in Global Software Engineering.....444**
Varun Gupta, Shivam Dalal, Chetna Gupta, Choppa Bhargav Aravind Sai Ram
- 60. Decision Aspect Prioritization Technique for Incremental Software.....447**
Varun Gupta, Siddharth Sethi, Karan Chopra, Chetna Gupta

ANALYTICS, MACHINE LEARNING AND INTERNET OF THINGS

- 61. Comparative Analysis between Direction of Arrival Algorithms.....451**
Muhammad Umair Shahid, Muhammad Nauman, Danyal Haider, Yasal Imran
- 62. Audio Visual automatic Speech Recognition using Multi-tasking
Learning of Deep Neural Networks.....455**
Hunny Pahuja, Priya Ranjan, Amit Ujlayan
- 63. Scheduling and Optimizing Security Technique.....459**
Natasha Saini, Nitin Pandey, Ajeet Pal Singh
- 64. A Secure IoT-Based Power Plant Control using RSA and DES
Encryption Techniques in Data Link Layer.....464**
Iqra Hussain, Mukesh Chandra Negi, Nitin Pandey
- 65. Interpretive Structural Modelling in Assessment of Agile Methodology.....471**
Rajbala Singh, Deepak Kumar, B.B. Sagar
- 66. An End to End Security Framework for Service Oriented Architecture.....475**
Anurag Shashwat, Deepak Kumar, Lovneesh Chanana
- 67. Game-Theory based Detection and Prevention of DoS Attacks on
Networking Node in Open Stack Private Cloud.....481**
Priti Narwal, Shailendra N. Singh, Deepak Kumar
- 68. Application and Use of MCDM Technique in Software Industry.....487**
Abhishek Srivastava, Bhakti Singh, Anshul Chabra, Rana Majumdar
- 69. Comparison between Smart Phones on the Basis of their Reliability Factors.....492**
Abhishek Srivastava, Rana Majumdar, Vaishali Tyagi, Sunil Choudhary, Mayank Choudhary
- 70. Opportunistic Message Forwarding in Self Organized Cluster based DTN.....497**
Vandana Juyal, Nitin Pandey, Ravish Saggarr

ADVANCE TECHNOLOGIES ON INFORMATION COLLECTION, EXTRACTION AND TRANSMISSION

71. **Rule based Sentiment Analysis System for Analyzing Tweets.....503**
Sujata Rani, Parteek Kumar
72. **Performance Analysis of Machine Learning Algorithms on Diabetes
Dataset using Big Data Analytics.....508**
P. Suresh Kumar, S. Pranavi
73. **Hybridization of Artificial Neural Network and Lagrange Multiplier
Method to Solve Economic Load Dispatch Problem.....514**
Mohammad Mohatram
74. **Fusion of Local and Non-Local Filters for denoising MRI Images.....521**
Farha Fatina Wahid, Sugandhi K., Raju G.
75. **A Multi-Constraint based Objective Function and Lion Optimization
for the Data Clustering.....526**
Satish Chander, Vijaya P., Praveen Dhyani
76. **MO- ADDOFL: Multi-Objective-based Adaptive Dynamic Directive
Operative Fractional Lion Algorithm for Data Clustering.....533**
Satish Chander, Vijaya P., Praveen Dhyani
77. **Detection of Human Gait Cycle: An Overlap based Approach.....540**
Sugandhi K., Farha Fatina Wahid, Raju G.
78. **Structure Based XML Document Clustering: A Review.....543**
Thulasi A., Remya KTV, Raju G.
79. **OOMT – Object Oriented Metric Technique towards
Predictive & Qualitative Software.....548**
Sudhan Jha

INTELLIGENT COMMUNICATION SYSTEM FOR SENSOR BASED MOBILE AD-HOC NETWORKS

80. **Efficient Random Data Accessing in MapReduce.....552**
Mamta Mittal, Hari Singh, K. K. Paliwal, Lalit Mohan Goyal
81. **Opinion Mining using Ontological Spam Detection.....557**
Neelam Duhan, Divya, Mamta Mittal
82. **Agent Based Solution for Dining Philosophers Problem.....563**
Deepshikha Bhargava, Sonali Vyas
83. **Comparison and Selection of SaaS Service Providers using ASMAN Framework.....568**
Mamta Dadhich, Vijay Singh Rathore, Sonali Vyas
84. **Map Matching Approach for Current Location Tracking on the Road Network.....573**
Kanta Prasad Sharma, Ramesh C. Poonia, Surendra Sunda
85. **Security Solutions for Physical Layer of IoT.....579**
Shivani Chowdhary, Subhranil Som, Vipul Tuli, Sunil Kumar Khatri
86. **Smart and Connecting City Parking – Leveraging Iot.....584**

Nilasha Rakshit, Subhrranil Som, Vipul Tuli, Sunil Kumar Khatri

87. **A Study for Improving Energy Efficiency in Mobile Devices.....588**
Gaurav Bhatia, Renuka Mahajan, Sunil Kumar Khatri
88. **MOM: MANETS (Mutual Adjustment by Neighbor Nodes
Ensuring Transmissions Smoothly) On MANets (Mobile Ad hoc Networks)
Provisioning Quality of Service at Network Layer.....593**
ShobhaTyagi, Subhrranil Som, Q. P. Rana

SOFT COMPUTING AND ITS APPLICATIONS

89. **Improved Intelligent Transport System for Reliable Traffic Control
Management by Adapting Internet of Things.....597**
Ramkumar Eswaraprasad, Linesh Raja
90. **Remote Based Patient Monitoring System Using Wearable Sensors
through Online and Offline Mode for Android based Mobile Platforms.....602**
Leo John Baptist Andrews, Linesh Raja
91. **Routing Optimization by Minimizing One-Way Delay in Delay
Tolerant Enabled Vehicular Ad-hoc Networks using Ferry Selection Approach.....607**
Vijander Singh, Reena Dadhich
92. **Robustness in Search-Based Software Remodularization.....611**
Amarjeet, Jitender Kumar Chhabra
93. **A Study on Causal Rule Discovery with PC Algorithm.....616**
B. Rama, P. Praveen, Harshit Sinha, Tanupriya Choudhury
94. **A Critical Analysis on Integration of Fog Computing and Cloud Computing.....622**
Seema Rawat, Shivam Jindal, Praveen Kumar
95. **Improved Differential Evolution Algorithm.....627**
Sanjay Jain, Sandeep Kumar, Vivek Kumar Sharma, Harish Sharma
96. **Data Synchronization and Offloading Techniques for Energy
Optimization in Mobile Cloud Computing.....633**
Deepak Kumar, Ravi Sharma
97. **Continuous Integration Build Breakage Rationale: Travis Data Case Study.....639**
Panagiotis Dimitropoulos, Zeyar Aung, Davor Svetinovic

DECISION SUPPORT SYSTEM FOR SOCIETAL CAUSE

98. **Audio Steganography using ASCII Code and GA.....646**
Amba Mishra, Prashant Johri, Anuranjan Mishra
99. **Advanced Patient Matching: Recognizable Patient View for Decision
Support in Healthcare using Big Data Analytics.....652**
Prashant Johri, Tanya Singh, Ashok Yadav, Anil Kumar Rajput
100. **The Impact of Information and Communication Technology
in Education: Gender Issues.....657**
Siphe Mhlana
101. **Impact of Information Technologies on Library
Services in Educational Institutions.....662**
Santhosh Goud Sammeta, Sahith Reddy Madara

102. Vitality of Big Data Analytics in Healthcare Department.....	669
<i>Prashant Johri, Tanya Singh, Sanjoy Das, Shipra Anand</i>	
103. A Hybrid Approach to Cater for Identity and Location Challenges in Crowdsourcing Applications.....	674
<i>Sneha Jadoo, Leckraj Nagowah</i>	
104. Estimation of Software Reliability and Development Cost Using Interval Type-2 Fuzzy AHP.....	682
<i>S. Chatterjee, Bhagyashree Chaudhuri, Chandan Bhar, Ankur Shukla</i>	
105. Drones Take-off Towards Legal Regime in the United Arab Emirates.....	689
<i>Sarath Raj N. S., Jerrin Varghese, Geetajnali Ramesh Chandra</i>	

QUALITY & RISK ANALYSIS

106. Evaluating Quality of Adhesive Joint of Missile Radomes.....	694
<i>Glukhov V., Klochkov Y., Gazizulina A., Krasulina O., Vlasova N.</i>	
107. Risks and Regulation of Emerging Technologies in Chaotic and Uncertain Times: The Case of 3D Printing.....	698
<i>Jose Montes</i>	
108. Hybrid Artificial Intelligence Model based on Neural Network Simulation Models for Software Maintainability Prediction.....	705
<i>Rachna Jain, Dhruv Sharma, Sunil Kumar Khatri</i>	
109. Information Model-Based Forecasting of Technological Process State.....	709
<i>Klochkov Y., Gazizulina A., Golovin N., Glushkova A., Selezneva Zh</i>	
110. Selection of Framework for Implementing Agile In Software Industry by Fuzzy AHP Approach.....	713
<i>Gargi Mahajan, Rajbala Simon, Sunil Kumar Khatri</i>	
111. Development of Methodology for Assessing Risk of Loss of a Consumer through the Fault of an Outsourcer.....	719
<i>Klochkov Y., Klochkova E., Didenko N., Frolova E., Vlasova N.</i>	
112. Prediction of Aviation Accidents using Logistic Regression Model.....	725
<i>Priyam Mathur, Sunil Kumar Khatri, Mayank Sharma</i>	
113. Development of External Customer Classification Based on the Analysis of Interested Parties.....	729
<i>Klochkov Y., Klochkova E., Alasas B.M., Kuzmina T., Konakhina N.</i>	
114. Approach to Analysis of Certification Authorities.....	733
<i>Klochkov Y., Gazizulina A., Mirolyubova O., Glushkov S., Knyazkina E.</i>	
115. Development of the Internal Audit Procedure.....	738
<i>Klochkov Y., Klochkova E., Solopova N., Kuzmin V., Kikkas K.</i>	

ARTIFICIAL INTELLIGENCE

116. Next-Best-View Planning for Environment Exploration and 3D Model Construction.....	745
<i>Mohamed E. ELzaiady, Ashraf Elnagar</i>	
117. Predicting Dynamic Modulus for Bituminous Concrete using Support Vector Machine.....	751
<i>Praveen Aggarwal</i>	

118. Optimization Technique for Networked Control DC Motor with Network-Induced Delays and Noise.....	756
<i>Y. Dharshan, K. Srinivasan, B. Sharmila</i>	
119. Malware Detection in Android Mobile Platform using Machine Learning Algorithms.....	763
<i>Mariam Al Ali, Davor Svetinovic, Zeyar Aung, Suryani Lukman</i>	
120. Predicting Crowdfunding Success with Optimally Weighted Random Forests.....	769
<i>Fahad Sarfaraz Ahmad, Devank Tyagi, Simran Kaur</i>	
121. Review on Sentiment Analysis on Music.....	776
<i>Stuti Shukla, Pooja Khanna, Krishna Kant Agrawal</i>	
122. Microcontroller Based Smart Mobility Management Using Fuzzy Logic.....	781
<i>Shweta Krishna Moorthy, Swaroop Ramaswamy Pillai, Chithirai Pon Selvan M.</i>	
123. A Fuzzy Interface System for Determining Air Quality Index.....	786
<i>Archit Aggarwal, Tanupriya Choudhary, Praveen Kumar</i>	

CYBER, INFORMATION & NETWORK SECURITY

124. Analysing the Influence of the DCBF data Structure on the DoS Attack Detection.....	791
<i>Ivica Dodig, Davor Cafuta, Vlado Struk</i>	
125. USSD – Architecture Analysis, Security threats, Issues and Enhancements.....	798
<i>K. Krithiga Lakshmi, Himanshu Gupta, Jayanthi Ranjan</i>	
126. Development of Simulator for Intrusion Detection System to Detect and Alarm the DDoS Attacks.....	803
<i>Ved Prakash Mishra, Balvinder Shukla</i>	
127. Efficient Approach towards Bitcoin Security Algorithm.....	807
<i>Inderpal Singh Mehta, Arnav Chakraborty, Tanupriya Choudhury, Mukul Sharma</i>	
128. A Lightweight Replay Attack Detection Framework for Battery Depended IoT Devices Designed for Healthcare.....	811
<i>Paavan Rughoobur, Leckraj Nagowah</i>	
129. Routing Protocols and Security Issues in MANET.....	818
<i>Sandeep Kumar, Monika Goyal, Deepak Goyal, Ramesh C. Poonia</i>	
130. Intelligent Security and Risk Analysis in Network Systems.....	825
<i>Masoud Mohammadian</i>	

AEROSPACE ENGINEERING

131. Aerodynamic Modelling of Quasi Steady Stall Using Neural-Network Based Gauss Newton Method.....	831
<i>Hari Om Verma, N. K. Peyada, S. Singh</i>	
132. Contour Design of Aerospoke Nozzle and Comparison of Performance.....	836
<i>Md Saquib Reza, Konark Arora</i>	
133. A Review on Bamboo Fiber Composites and its Applications.....	843
<i>N. Kaur, S. Saxena, H. Gaur, P. Goyal</i>	
134. Advanced Rocket Propulsion Techniques for Deep Space Travel: A Review.....	850
<i>Swaraj Singh, Nitish Kumar Borah, Abhinav Singh Pardeshi, Ankur Vats</i>	

135. Advanced Space Debris Removable Technique and Proposed Laser Ablation Technique: A Review.....	854
<i>Nikhil P. Khanolkar, Nikita Shukla, Vivek Kumar, Ankur Vats,</i>	
136. Influence of Radiative Heat on Progress and Decline of Sonic Waves with Internal State Variables.....	859
<i>Nahid Fatima</i>	
137. Review of Aerodynamic Parameter Estimation Techniques.....	864
<i>R. K. Chauhan, S. Singh</i>	
138. Review of the Flow-field Analysis Over Cavities.....	870
<i>Jayanta Sinha, Konark Arora</i>	
139. Analysis of Aerodynamic Characteristics of a Missile Configuration.....	877
<i>Nikhil P. Khanolkar, Bharat Bhushan, M. Siddharth, Edwin Borrison, J Sinha</i>	