

2019 5th International Conference on Computing Engineering and Design (ICCED 2019)

**Singapore
11 – 13 April 2019**



**IEEE Catalog Number: CFP19N11-POD
ISBN: 978-1-7281-2095-9**

**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:	CFP19N11-POD
ISBN (Print-On-Demand):	978-1-7281-2095-9
ISBN (Online):	978-1-7281-2094-2

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

1. Analytical Hierarchy Process with Data Mining Classification to Reduce Traffic Accident Level.....1
Dudih Gustian, Abyasa Armand, Mawar Wati, Fanna Risdiyana Setiawan (PaperID2)
2. Design and Construction of a Cutting Machines for Fresh Betel Nut (Areca Catechu Linn).....7
Agustami Sitorus, Deni Nugraha, Dede Rustamli, Muslimin, Andi Rinaldi Hasan, Ramayanty Bulan (PaperID3)
3. Design and Construction of oil palm fronds (OPF Compost Mixer Machine Type Rotary Double Helix Drum.....11
Ramayanty Bulan, Mustaqimah, Rahmah, Andi Rinaldi Hasan, Dewi Sartika T, Agustami Sitorus] (PaperID4)
4. Determination of the Best Formula to Increase Company Revenues Using CART Algorithm.....15
Samsul Pahmi, Ade Nurul Anwar, Siti Rahmah Nurhasanah, Siti Nadia, Lucas Cramer, Bahadir Ozsut] (PaperID21)
5. Comparison of Online Learning Versus Face to Face Learning in English Grammar Learning.....21
Anthony Anggrawan, Abdul Hakim Yassi, Christofer Satria, Burhanuddin Arafah, H. Mustafa Makka (PaperID24)
6. Texture Classification based Efficient Image Compression Algorithm for Wireless Capsule Endoscopy.....25
Sushma B, Aparna P (PaperID25)
7. An Approach to Optimation Temperature Uniformity in A Mini-Oven via Numerical Simulations.....31
Agustami Sitorus, Diaz Zakaria, Iclang Yayang, Gia Yosep Gunawan, Yudinata, Oscar Haris, Andi R. Hasan, Devianti, Dewi Sartika T] (PaperID29)
8. Rice Controller Using Half Bridge Load Cell and NodeMCU ESP8266 In Rice Dispenser.....36
Anang Suryana, Rizky Ananda, Taufik Rizki Maulana, Muhamad Rizal (PaperID30)
9. Analysis of Crack Deffect at Nut M 14 Cold Forging Process with FTA Methode.....42
Oscar Haris, Dodi Iwan Sumarno, Zaenal Arifin, Alfi Nurzaman, Agus Darmawan, Dede Kurtubi (PaperID35)
10. User Acceptance Factors of A Routine Statistics Application in Banten Province.....48
Arung Dewa Raja Manessa, Satrio Baskoro Yudhoatmojo, Indra Budi (PaperID44)
11. Regression Model of Shop-house Construction Costs and Percentage of Building Component Costs.....54
Angga Aprilia, Mochamad Rajib Siddiq, Roni Eka Hamdani, Nadhya Susilo Nugroho, Paikun, Jasmansyah] (PaperID45)
12. Students' Perceptions of E-assessment at a Higher Education Institution.....60
Martin Appiah, ²Fanus van Tonder (PaperID46)
13. AR-Child: Analysis, Evaluation, and Effect of Using Augmented Reality as a Learning Media for Preschool Children.....67
Aulia Akhrian Syahidi, Herman Tolle, Ahmad Afif Supianto, Kohei Arai (PaperID51)
14. Porter Stemmer and Cosine Similarity for Automated Essay Assessment.....73
Nunik Destria Arianti, Mohamad Irfan, Undang Syaripudin, Dina Mariana, Dian Sa'adillah Maylawati (PaperID53)

15. Monitoring Electrical Energy Consumption Through Impulse Detection Using LDR Sensors and Relay With NodeMCU ESP8266.....78
Anang Suryana, Mohamad Ridwan Fauzi, Ragil Ahmad Ramadhan, Fatekhul Muiz (PaperID56)
16. Feature Correlation Map based Statistical Approach for Denial of Service Attacks Detection.....85
Narayanavadivoo Gopinathan Bhuvanewari Amma, Selvakumar Subramanian (PaperID57)
17. Design of Microstrip Antenna With Dual Feed Line For Improving Bandwidth and Axial Ratio.....91
Syah Alam, Anggy Pradiftha Junfithrana, Indra Surjati, Yuli Kurnia Ningsih, Lydia Sari, R. Deiny Mardian] (PaperID59)
18. Identifying Sentence Structure in Bahasa Indonesia by Using POS Tag and LALR Parser.....95
Dani Gunawan, Hardiani Putri Siregar, Opim Salim Sitompul (PaperID60)
19. Water Balance Prediction as Impact Land Use Change By GIS Based SCS-CN and Thornhtwaite-Mather Method.....100
Radius Pranoto, Endang Hadi R., Misbah Sopandi, Risandi Harumansah, Satyanto Krido Saptomo, Agus Darmawan] (PaperID63)
20. Knowledge Growing System Implementation on Design of Unmanned Aerial Vehicle in Maritime Security Monitoring.....106
Ilman Himawan Kusumah (PaperID65)
21. Smart Fish Feeder Using Arduino Uno With Fuzzy Logic Controller.....112
Nisa Hanum Harani, Anggi Sholihatus Sadiyah, Anny Nurbasari (PaperID67)
22. Image Transmission over V2V Channel with Moving Scatterer.....118
Eka Setia Nugraha, Anggun Fitriani Isnawati, Jans Hendry, Wahyu Pamungkas, Titiety Suryani (PaperID68)
23. Performance Analysis of Commercial PV for Remote Area in Tropical Island.....124
Mutiara Efendi, Yuli Setyo Indartono, Mukhlis Ali, Brian Yuliarto (PaperID69)
24. Artists Identification Using Convolutional Sparse Autoencoder.....129
Vinnia Kemala Putri and Felix Indra Kurniadi (PaperID70)
25. Increased efficiency of Smart Water Systems for Vegetable Plants Using the Deep Learning Classification Approach.....133
I Komang Yogi Trisna Permana, Teddy Mantoro, Edi Irawan, Dini Oktarina Dwi Handayani, Cutifa Safitri (PaperID71)
26. Trust in Merchants and E-commerce Platforms as Antecedents of Users' Purchase Intention in C2C E-Commerce....138
Viky George Lettu Radja Pono, Putu Wuri Handayani, Puspa Indahati Sandhyaduhita, Fatimah Azzahro (PaperID72)
27. Improving Electric Motor Performance by Handling Interference using IOT.....144
Anggy Pradiftha Junfithrana, Irfan Solikin, Juni Kusuma Hadi, Moch. Dedy Novianto (PaperID73)
28. Informative Tweet Classification of the Earthquake Disaster Situation In Indonesia.....149
Windu Gata, Fachri Amsury, Nia Kusuma Wardhani, Ipin Sugiyarto, Daning Nur Sulistyowati, Irwansyah Saputra (PaperID74)
29. Increasing the Mastery of Concept Science Learning Using Stereoscopic 3D Images.....155
Dede Permana (PaperID75)
30. Performance Improvement with Non-Uniform Loads on SMT Processors.....159
Adnan, Dwi Khairil Oktahidayat, Andani Achmad (PaperID84)
31. User Motivation Analysis in Sharing Hoaxes In Indonesia.....165
Muhammad Tafriet, Putu W. Handayani, Ave Adriana Pinem (PaperID87)
32. Evaluation of Data Operations Management Maturity Level using CMMI in a State-Owned Enterprise.....171
Sinta Nur Asih, Rusyda Nabila, Istidana Harjanti Ismed, Widia Resti Fitriani, Achmad Nizar Hidayanto, Satrio Baskoro Yudhoatmojo (PaperID88)

33. Bio-Inspired Algorithm for QoS Optimization in Information-Centric Networking.....177
Cutifa Safitri, Yoshihide Yamad, Shidrokh Goudarzi, Teddy Mantoro, Media Anugerah Ayu (PaperID91)
34. Mapping Internal Control of Data Security Issues of BYOD Program in Indonesian Banking Sector.....181
Aboeryzal Ahmed Koesyairy, Angga Kurniawan, Achmad Nizar Hidayanto, Nur Fitriah Ayuning Budi, Rahmat M. Samik-Ibrahim (PaperID94)
35. Privacy Concern on Continuance of use in Online Doctor Consultation.....186
Reitasya Devina, Putu Wuri Handayani, Ave Adriana Pinem (PaperID95)
36. Analysis of Factors Affecting Lecturer Acceptance of the E-Learning System in Lampung University.....192
Muhaqiqin, Indra Budi (PaperID97)
37. How Micro and Small Enterprises Perceive Information Technology Fraud: A Study of Indonesian' Small Businesses.....198
Diana Rahmawati, Ratna Yudhiyati, Afrida Putritama (PaperID98)
38. Identification of How Health Information Security Awareness (HISA) Influence in Patient' Health Information Protection Awareness (PHIPA).....204
Rodiatul Adawiyah, Achmad Nizar Hidayanto, Ika Chandra Hapsari, Rahmat M Samik Ibrahim (PaperID99)
39. Measurement of Employee Information Security Awareness Using the Human Aspects of Information Security Questionnaire (HAIS-Q): Case Study at PT. PQS.....210
Aulia Zulfia, Rodiatul Adawiyah, Achmad Nizar Hidayanto, Nur Fitriah Ayuning Budi (PaperID103)
40. Increasing Accuracy of Ensemble Logistics Regression Classifier by Estimating the Newton Raphson Parameter in Credit Scoring.....215
Firman Aziz, Armin Lawi, Edy Budiman (PaperID104)
41. Selection of Informative Genes to Classify Type 2 Diabetes Mellitus using Support Vector Machine.....219
Firda Nurul Auliah, Armin Lawi, Sri Astuti Thamrin, Edy Budiman (PaperID105)
42. Implementation of SVM Kernels for Identifying Irregularities Usage of Smart Electric Voucher.....224
Supriyadi La Wungo, Armin Lawi, Edy Budiman (PaperID106)
43. Evaluation of Data Protection On Students Academic Information System Universitas Terbuka.....229
Fitria Amastini, Anindhita Dwi Saraswati, Atika Uyun, Achmad Nizar Hidayanto, Widijanto Satyo Nugroho (PaperID112)
44. Business Intelligence Critical Success Factors Evaluation Using Analytical Hierarchy Process.....235
Kevin Christian Sianipar, Satyo Wicaksana, Bambang Parikenan, Achmad Nizar Hidayanto (PaperID115)
45. Analyzing The Relevance of Inhibiting Factors in Implementing ISO 27001 Using the DEMATEL Method (Case Study: Electronic Procurement Service Center (LPSE) of the Ministry of Finance, Republic of Indonesia).....241
Wildan Farani, Wahyudin Buca K, Muhamad Insan Rizky, Achmad Nizar Hidayanto, Nur Fitriah Ayuning Budi, Ave Adriana Pinem, Satrio Baskoro Yudhoatmojo (PaperID116)
46. Quick Ways to Calculate Shophouse Construction Project Materials Using Regression Analysis Program.....247
Paikun, Sri Rahayu, Ade Selpi, Andini Awalia, Jasmanyah (PaperID118)
47. The Identification of Negative Content in Websites by Using Machine Learning Approaches.....253
Amalia Amalia, Dani Gunawan, Maya Silvi Lydia, Wesley (PaperID119)
48. The Readiness of Adopting E-Government: A Systematic Literature Review.....259
Rena Nuravianty, Dana Indra Sensuse, Fadhil Dzulfikar, Teddy Mantoro, Mei Lestari, Rahman Abdillah (PaperID122)
49. Clustering of Provinces in Indonesia Based on Regional Investment Capacity with Density-Based Spatial Clustering of Applications with Noise Method.....265

Tiffany Nabarian, Sutoto, Nerifa Gusmawati, Danil Prastika Trimaratus Sholehah, Achmad Nizar Hidayanto, Annisa Monicha Sari (PaperID123)

50. PVRs: Publication Venue Recommendation System A Systematic Literature Review.....271
Sahar Ajmal, Muteeb Bin Muzammil (PaperID127)
51. A Systematic Literature Review of Deep Learning Algorithms for Personality Trait Recognition.....277
I Made Artha Agastya, Dini Oktarina Dwi Handayani, Teddy Mantoro (PaperID131)
52. A Fuzzy Logic Based Internet of Things (IoT) for Smart Water Bottle.....283
Angga Edwin Wijanarko, Maman Abdurohman, Aji Gautama Putrada (PaperID133)
53. Study of Performance Measurement Framework On Small Teams Using Agile Project Management and IT Balance Scorecard: Case Studies in IT Companies (Solmit Bangun Indonesia).....289
Abdurrahman, Rudy Asrianto (PaperID135)
54. Increasing Passive RFID-Based Smart Shopping Cart Performance using Decision Tree.....295
Khalid Yusuf, Maman Abdurohman, Aji Gautama Putrada (PaperID136)
55. Mobile Based Augmented Reality to Improve Learning of Volcanology for High School Students.....300
Hali Akhmalludin, Media Anugerah Ayu (PaperID149)
56. Providing Real-time Crime Statistics in Indonesia Using Data Mining Approach.....306
Sony Surya Wijaya, Media Anugerah Ayu, Teddy Mantoro (PaperID150)
57. Dimensions of E-Complaint Service Quality: A Systematic Literature Review.....311
Anisa Monicha Sari, Betty Purwandari, Achmad Nizar Hidayanto, Muhammad Fadhil Dzulfikar, Muhammad Misbah, Larastri Kumalaralita (PaperID153)
58. The Tracer Application of Public Transportation Based on Travel Information for Supporting Smart City in Indramayu.....317
A Sumarudin, Adi Suheryadi, Alifia Puspaningrum, Rivaldy Firmansyah, Mohammad Yani, Anggy Pradiftha Junfithrana (PaperID155)
59. A Review of Combined Effect of Cryptography & Steganography Techniques to Secure the Information.....322
Ghulam Mustafa, Rehan Ashraf, Inam Ul Haq, Yusra Khalid, Rafiq Ul Islam (PaperID156)
60. Design and Analysis of Nano Bowtie circular array Antenna For Infrared Energy Harvesting Applications.....328
Zakaullah, Gunawan Witjaksono (PaperID157)
61. Characterizing Growth Types in a Metropolitan Region as Additional Factors for Simulating a City Urbanization.....333
Rahmadya Trias Handayanto, Nitin Kumar Tripathi, Herlawati, Seta Samsiana (PaperID160)
62. Building Corpus in Bahasa Indonesia for Pornographic Indicated Website Content.....338
Reza Chandra, M. Agung Sucipta Iskandar, Lintang Yuniar Banowosari, Adang Suhendra, Prihandoko (PaperID161)
63. Performance Evaluation of Adaptive Algorithms for Speech Improvement.....343
Chandraprabha Manjare, S D Shirbahadurkar, ¹Poonam Lambhate (PaperID164)