

2022 International Conference of Science and Information Technology in Smart Administration (ICSINTESA 2022)

**Denpasar, Bali, Indonesia
10-12 November 2022**



**IEEE Catalog Number: CFP22CN6-POD
ISBN: 978-1-6654-7289-0**

**Copyright © 2022 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:	CFP22CN6-POD
ISBN (Print-On-Demand):	978-1-6654-7289-0
ISBN (Online):	978-1-6654-7288-3

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

CURRAN ASSOCIATES INC.
proceedings
.com

TABLE OF CONTENTS

Simple Fuzzy Decision Support Model for Evaluating the Cryptocurrency's Performance	1
<i>Ditdit Nugeraha Utama</i>	
Minimalistic Vector Extension for Image Detection on Edge Nodes Using 'VGG16'	6
<i>Sanjith M Gowda, B Rajeshwari, B Bajarangbali</i>	
Implementation of Machine Learning in Predicting Length of Punishment at Bandung Court	12
<i>Ilmiyati Sari, Rifki Kosasih, Achmad Fahrurozi</i>	
PLS-SEM-ANN- Based Technique for Understanding Behavioral Intention to Use a Learning Management System	18
<i>Vicente A. Pitogo, Erwin Carlo Gonzales, Jane Francis P. Jaictin</i>	
Webots Simulator for Lyapunov-Based Cooperative Omnidirectional Mobile Robots Evaluation.....	24
<i>Fransisco Jordan, Hendi Wicaksono, Veronica Indrawati</i>	
Process Mining Analysis and Implementation on Customer Complaints Dataset	30
<i>Rudi Guna Pramudia, Rama Ariandi, Farah Sherina Salma, Rachmadita Andreswari</i>	
Customer Segmentation Using Fuzzy C-Means Algorithm in Telco Industry.....	35
<i>Chairani Irfiyanda, Rachmadita Andreswari, Faqih Hamami</i>	
Comparison of K-Nearest Neighbor and Logistic Regression Algorithms on Sentiment Analysis of Covid-19 Vaccination on Twitter with Vader and Textblob Labeling.....	39
<i>Fadhilah Fazrin, Oktariani Nurul Pratiwi, Rachmadita Andreswari</i>	
Customer Segmentation of Cellular Telecommunication Company Using K-Means Algorithm (Case Study of PT Indosat).....	45
<i>Desfiana Suci Rachmahwati, Rachmadita Andreswari, Faqih Hamami</i>	
ModifiedECS (mECS) Algorithm for Madurese-Indonesian Rule-Based Machine Translation	51
<i>Fika Hastarita Rachman, Noor Ifada, Sri Wahyuni, Gita Dharma Ramadani, Adrian Pawitra</i>	
Mobile Application for Personalized Culinary Tourism Based on User Preference	57
<i>Fika Hastarita Rachman, Ahmad Jauhari, Rouf Yusuf Mukhlisin, Novi Prastiti, Sri Herawati, Imamah</i>	
Explainable Artificial Intelligence (XAI) on Hoax Detection Using Decision Tree C4.5 Method for Indonesian News Platform	63
<i>Jason Imanuel, Lusya Kintanswari, Vincent, Henry Lucky, Andry Chowanda</i>	
Generated Tabular Data with Multi-GANs for Arrhythmia Classification Based on DNN Models	69
<i>Hendrico Yehezky Nata Atmadja, Alhadi Bustamam, Hermawan</i>	
Decision Support System Terms of SME's Credit Lending Based on Machine Learning Approach	75
<i>Fadi H. Hazboun</i>	
IOS Digital Evidence Comparison of Instant Messaging Apps	83
<i>Muhammad Syihaab Al-Faaruuq, Dimas Febriyan Priambodo</i>	

Design and Analysis of Automated Machine Learning (AutoML) in PowerBI Application Using PyCaret.....	89
<i>Denny Jean Cross Sihombing, Jawangi Unedo Dexius, Jonson Manurung, Mendarissan Aritonang, Harni Seven Adinata</i>	
Effective Methods for Solving Systems of Nonlinear Equations of the Algebra of Logic Based on Disjunctions of Complex Conjunctions.....	95
<i>Anvar Kabulov, Abdussattar Baizhumanov, Islambek Saymanov, Mansur Berdimurodov</i>	
Algorithms for Minimizing Disjunctions of Complex Conjunctions Based on First-Order Neighborhood Information for Solving Systems of Boolean Equations	100
<i>Anvar Kabulov, Abdussattar Baizhumanov, Islambek Saymanov, Mansur Berdimurodov</i>	
Performance Evaluation of LoRaWAN in Pulse Status Monitoring with Clustering of Wireless Sensor Network	105
<i>Puput Dani Prasetyo Adi, Iwan Purnama, Agoestina Mappadang, Budi Agung Sudarmanto, Latifa Nuraini, Fauzan Azim, Muhammad Yusuf Siregar, Budianto Bangun, Yudi Prastiyono, Zulkifli</i>	
Face Completion with Multi-Output Estimators	111
<i>Nicholas Fonseca, Kanika Sood</i>	
A Markova-Chain Approach to Model Vehicles Traffic Behavior.....	117
<i>Ahmed Ibrahim Turki, Saad Talib Hasson</i>	
Modeling the Behavior of the Linear Wireless Sensor Networks.....	123
<i>Zainab Salam Alhachimy, Saad Talib Hasson</i>	
Photoplethysmography (PPG) Signal-Based Chronological Age Estimation Algorithm	128
<i>H Asyrafi, Sunarno, Faridah, M M Waruwu, R Wijaya</i>	
Automatic Sound Alarm Classification Using Deep Learning for the Deaf and Hard of Hearing	133
<i>Devis Styo Nugroho, Hendra Kusuma, Tri Arief Sardjono</i>	
Microcontroller Based Automatic Fuel Consumption Gauge.....	139
<i>Wawan Purwanto, Hasan Maksum, Ahmad Arif, Hendra Dani Saputra, Yolana Nursyafti, Misna Edi</i>	
Sentiment Classification Twitter of LRT, MRT, and Transjakarta Transportation Using Support Vector Machine.....	143
<i>Dinar Ajeng Kristiyanti, Rizki Aulianita, Dwi Andini Putri, Lilyani Asri Utami, Fajar Agustini, Zulia Imami Alfianti</i>	
Software Agent and Data Marker for Data Synchronization in Integrated Systems.....	149
<i>Aldila Putri Linanzha, Reza Pulungan</i>	
Sentiment Analysis of the Public Perspective Electric Cars in Indonesia Using Support Vector Machine Algorithm.....	155
<i>Muhammad Ilham Alhari, Oktariani Nurul Pratiwi, Muharman Lubis</i>	
Comparison of K-Means and K-Medoids in Tourist Attraction Clustering Based on Visitor Characteristics	161
<i>Achmad Jauhari, Mohammad Rizal Rahabillah, Devie Rosa Anamisa, Ahmad Farisul Haq, Fifin Ayu Mufarroha, Alief Akbar Purnama</i>	

Identification of Pests on Black Orchid Plants Using Naïve Bayes Method Based on Leaf Image Texture.....	167
<i>Rika Ismayanti, Faza Alameka, Dedy Mirwansyah, Nariza Wanti Wulan Sari, Abdul Rahim, Riyayatsyah</i>	
Evaluation of Information Security Management Using the KAMI Index Framework	173
<i>Tina Tri Wulansari, Dody Novandi</i>	
It Triple-A Strategy to Improve SMEs' Supply Chain.....	178
<i>Assed Lussak, Ibnu Darmawan</i>	
Job Assignment Problem on Online Transportation Order Using Hungarian Algorithm	183
<i>Andreas Handoyo, Nyoman Pujawan, Budi Santosa, Moses Laksono Singgih</i>	
Selection System of Madura Tourism Object as the Best Recommendation Based on Comparative Analysis of K-NN and Naive Bayes Methods	188
<i>Devie Rosa Anamisa, Mohammad Rizal Rahabillah, Achmad Jauhari, Ahmad Farisul Haq, Alief Akbar Purnama, Fifin Ayu Mufarroha</i>	
Academic Smart Chatbot to Support Emerging Artificial Intelligence Conversation	194
<i>Richki Hardi, Ahmad Naim Che Pee, Muhammad Haziq Lim Bin Abdullah, Vicente A Pitogo, Agung Sakti Pribadi, Jack Febrian Rusdi</i>	
Potential Target of 5G Digital Business Telecommunication Company "PT. MNO Indonesia"	200
<i>Amirsyah Rayhan Mubarak, Catur Apriono</i>	
Collision Avoidance System with Model Predictive Control for Mobile Robot Navigation.....	204
<i>Achmad Imam Sudianto, Muhammad Aziz Muslim, Mohammad Rusli</i>	
Frameless Coded Slotted ALOHA Scheme with Frequency Domain-Extended on NLOS Visible Light Communication Channel	210
<i>Ade Rosa Mulyanasari, Brian Pamukti, Akhmad Hambali</i>	
Embedded Flu Detection System Based Cough Sound Using MFCC and kNN Algorithm.....	215
<i>Aldi Jayadi, Barlian Henryranu Prasetio, Sabriansyah Rizqika Akbar, Edita Rosana Widasari, Dahnial Syaury</i>	
Performance Analysis of Artificial Neural Network - Chimpanzee Leader Election Optimization on Classification Case	220
<i>Ferry Wahyu Wibowo, Akhmad Dahlan, Wihayati</i>	

Author Index