

2024 International Conference on Information Technology Research and Innovation (ICITRI 2024)

**Jakarta, Indonesia
5-6 September 2024**



**IEEE Catalog Number: CFP24CN2-POD
ISBN: 979-8-3503-7622-7**

**Copyright © 2024 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:	CFP24CN2-POD
ISBN (Print-On-Demand):	979-8-3503-7622-7
ISBN (Online):	979-8-3503-7621-0

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

PROGRAM SCHEDULE – Parallel Session Schedule

Room 1 (Informatics)

Day 1:

Thursday, September 5, 2024

No	Times (Jakarta, INA)	Page	Title
1	13.00 -13.15	1	Epileptic Seizure Prediction from EEG Signal Recording Using Energy and Dispersion Entropy with SVM Classifier
2	13.15 -13.30	7	Optimizing Intrusion Detection: Hybrid Deep Learning Techniques for Class Imbalance Correction
3	13.30 -13.45	13	Comparison of Oversampling Techniques in Prediction Judicial Decisions of Divorce Trials in Family Courts
4	13.45 - 14.00	19	Leveraging XGBoost and Feature Importance for NBA Salary Classification
5	14.00 - 14.15	24	Classification of Health Insurance Fraud Risk with Machine Learning
6	14.15 - 14.30	30	Machine Learning for Imbalanced Data in Telecom Churn Classification
7	14.30 - 14.45	36	Smart Aquaculture Vaname Shrimp LoRaWAN Based

Day 2;

Friday, September 6, 2024

No	Times (Jakarta, INA)	Page	Title
1	09.15 - 09.30	236	Bibliometric Analysis and Visualization of Machine Learning-Based Credit Card Fraud Detection
2	09.30 - 09.45	242	Evolving Ethics: Adapting Principles to AI-Generated Artistic Landscapes
3	09.45 - 10.00	248	Single Channel Passive Optical Network with High Data Rate for Increasing Broadband Access Capacity
4	10.00 - 10.15	251	Enhancing Deepfake Detection for Public Awareness, Law Enforcement and Legal Verification
5	10.15 - 10.30	257	Reconstruction and Detection of Gambling Web Defacement Attack Using Wazuh and Velociraptor
6	10.30 - 10.45	263	Review of Critical Components of Data-Driven Nudge Theory on Enhancing Conversion Rates in Digital Marketing Campaigns

Room 2 (Informatics)

Day 1:

Thursday, September 5, 2024

No	Times (Jakarta, INA)	Page	Title
1	13.00 - 13.15	41	Improved Prediction of Global Temperature via LSTM Using ReLU Activation and Hyperparameter Optimization
2	13.15 - 13.30	47	Diagnostic Analysis of Diseases with Key Symptoms of Bad Breath: Integration of Naïve Bayes for Early Detection
3	13.30 - 13.45	53	LSTM for Web Visit Forecasting with Genetic Algorithm and Predictive Bandwidth Allocation
4	13.45 - 14.00	59	Indonesian Lexical Ambiguity in Machine Translation: A Literature Review
5	14.00 - 14.15	65	Investigating ChatGPT on Reddit by Using Lexicon-Based Sentiment Analysis
6	14.15 - 14.30	71	Classification of Eye Diseases in Humans Using Vision Transformer Architecture Model
7	14.30 - 14.45	76	An Explainable Machine Learning-Based Phishing Website Detection Using Gradient Boosting

Day 2:

Friday, September 6, 2024

No	Times (Jakarta, INA)	Page	Title
1	09.15 - 09.30	269	Dangerous Speech in Indonesian Twitter Posts: A Literature Review
2	09.30 - 09.45	275	Enhancing Indonesian Abusive Language Detection on Imbalanced News Comment Dataset Using Support Vector Machine with Oversampling
3	09.45 - 10.00	281	Forecasting Volatile Fresh Chili Prices in Indonesia Using Support Vector Regression
4	10.00 - 10.15	287	Real Running Time Analysis of Multi Prime RSA Algorithm and XRSA in Securing Digital Messages
5	10.15 - 10.30	293	Prediction of Egg Price in Traditional Markets Using Deep Learning
6	10.30 - 10.45	299	Transforming E-Commerce: AI Chatbots for Supercharged Customer Experiences

Room 3 (Informatics , Software Engineering)

Day 1:

Thursday, September 5, 2024

No	Times (Jakarta, INA)	Page	Title
1	13.00 - 13.15	82	A Conceptual Model for Diploma Verification in Education: Leveraging NFTs and Dynamic Smart Contracts
2	13.15 - 13.30	88	Predictive Analysis of Toddler Nutrition Using C5.0 Decision Tree Method
3	13.30 -13.45	93	Implementation of PC Algorithm to the Incidence Factor of Stunting Disease
4	13.45 - 14.00	99	Rule-Based NER for Crime Information Extraction Through Online News Site
5	14.00 -14.15	105	Analysis Essential Influence Factors on the Intention to Use Cryptocurrency in Indonesia
6	14.15 - 14.30	111	Deep Learning for Intelligent Customer Service Automation: Development of GRU, LSTM, and Recurrent Neural Network Architectures for Chatbot Applications
7	14.30 - 14.45	118	Determining Bundling Packages and Promos Using FP-Growth Based on Customer Behavior

Day 2;

Friday, September 6, 2024

No	Times (Jakarta, INA)	Page	Title
1	09.15 - 09.30	305	From Traditional to Innovation: Large Language Models in Fisheries Data Extraction
2	09.30 - 09.45	311	Feature Learning Using Deep Variational Autoencoder for Prediction of Defect in Car Engine
3	09.45 - 10.00	317	Application of Machine Learning Techniques in Identification of Fungal Species: A Literature Review
4	10.00 - 10.15	323	Reusable Components as Base Project for Standardizing Software Quality
5	10.15 - 10.30	329	A Systematic Literature Review on Requirement Validation of Agile Requirement Engineering
6	10.30 - 10.45	335	The Impact of Social Media in Marketing on Brand Awareness and Customer Trust in Increasing Purchase Intention
7	10.45 - 11.00	341	Enhancing Environmental Data Management Through Dynamic Smart Contract Interaction on Blockchain

Room 4 (Image Processing)

Day 1:

Thursday, September 5, 2024

No	Times (Jakarta, INA)	Page	Title
1	13.00 - 13.15	123	Implementation of EfficientNet-B0 Architecture in Malaria Detection System Based on Patient Red Blood Cell (RBC) Images
2	13.15 - 13.30	129	A Multi-Modal Deep Learning Approach for Enhanced Optical Illusion Recognition
3	13.30 - 13.45	135	Fuzzy Logic and Attention Gate for Improved U-Net with Genetic Algorithm for DFU Image Segmentation
4	13.45 - 14.00	141	A Two-Color Space Input Parallel CNN Model for Food Image Classification
5	14.00 - 14.15	146	Enhancing Succulent Plant Species Classification: A MobileNetV3-Large Approach
6	14.15 - 14.30	152	Auto Local Threshold Analysis of Prehistoric Cave Art in Leang-Leang Archaeological Park, South Sulawesi, Indonesia
7	14.30 - 14.45	158	Local Binary Pattern (LBP) Extraction for Coffee Classification Using Modular Neural Networks (MNN)

Day 2:

Friday, September 6, 2024

No	Times (Jakarta, INA)	Page	Title
1	09.15 - 09.30	347	Improved Medicinal Plant Leaf Classification Using Transfer Learning and Model Averaging Ensemble of Deep Convolutional Neural Networks
2	09.30 - 09.45	353	Enhancing Cabbage Plant Protection: CNN Algorithm for Insect Identification
3	09.45 - 10.00	359	Enhancement of Underwater Images Using DCP and CycleGAN
4	10.00 - 10.15	365	Enhancing Rice Disease Detection With K-Means Segmentation and Comparison of EfficientNetB0, ResNet50, and Xception
5	10.15 - 10.30	371	Detection and Classification Disease Citrus Nobilis Lour Using Convolutional Neural Network Method
6	10.30 - 10.45	N/A	Encrypting Messages on Digital Images Using Bit-Plane Complexity Segmentation Method and Alpha-Qwerty Reverse Algorithm
7	10.45 - 11.00	376	Performance Evaluation of ResNet50 in Skin Cancer Image Classification With Various Optimizers

Room 5 (Offline - Informatics , Image Processing)

Thursday, September 5, 2024

No	Times (Jakarta, INA)	Page	Title
1	13.00 - 13.15	164	Identification of Aedes Mosquitoes with Audio Data Using Gammatone Filter
2	13.15 - 13.30	170	Attentive Convolutional Neural Network for Sentiment Analysis on ChatGPT
3	13.30 - 13.45	175	Combining Remote Sensing Dataset, Machine Learning, and Explainable AI for Detailed Human Development Index Monitoring in East Java, Indonesia
4	13.45 - 14.00	181	Digital Ecosystem Transformation: Building an Integrated Jakarta Museum Tourism
5	14.00 - 14.15	186	Revitalization of Jakarta SMEs Through Digital Transformation: Inventory Prediction With K-NN Algorithm in SmartOkianStock Application
6	14.15 - 14.30	192	Combination of Feature Extraction Methods for Identification of Diseases in Corn Leaves

Room 6 (Offline - Image Processing, Software Engineering)

Thursday, September 5, 2024

No	Times (Jakarta, INA)	Page	Title
1	09.15 - 09.30	198	Comparative Analysis of Fingerprint Authentication Using the Convolutional Neural Network (CNN) Method for Two Datasets
2	09.30 - 09.45	202	Optimization of Fetal Development Measurement on Ultrasound Images Using Segmentation Techniques Combined
3	09.45 - 10.00	208	Image Enhancement with DBPN for Plant Pest Classification
4	10.00 - 10.15	212	Segmentation of Libraries, CMS, and PHP Frameworks Based on Code Characteristics: Implementation of Clustering Using K-Means
5	10.15 - 10.30	218	Improving Software Defect Prediction Performance Through Effective Forward Selection Method with Linear Regression for Handling Class Imbalance
6	10.30 - 10.45	224	Estimating Software Vulnerabilities from Git Project Open Source: A Machine Learning Approach
7	10.45 - 11.00	230	An Empirical Study of Unanswered Python-Related Questions on Stack Overflow