2024 International Seminar on Application for Technology of Information and Communication (iSemantic 2024)

Semarang, Indonesia 21-22 September 2024



IEEE Catalog Number: CFP24CUE-POD **ISBN:**

979-8-3503-6665-5

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:	CFP24CUE-POD
ISBN (Print-On-Demand):	979-8-3503-6665-5
ISBN (Online):	979-8-3503-6664-8

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





2024 International Seminar on Application for Technology of Information and Communication

Table of Contents

Paper ID	Title	Page
1571016340	Comparison Performance of SVM, Naïve Bayes and XGBoost Classifier on Climate Change Issue	1 - 6
1571016342	Imbalanced Edible and Poisonous Mushroom Classification Dataset with Convolution Neural Network (CNN) Classifier Method	7 - 12
1571016346	Analysis Performance of Optimization Method in ResNet50 for Cotton Leaf Disease Classification	13 - 18
1571016872	Comparison ResNet & VGGNet for Traffic Sign Image Quality in Nighttime	19 - 24
1571024471	Latest Technology and Go Digital in Entrepreneurial Business Models in the Digital Economy Era 2024	25 - 29
1571025842	Exploring The Impact of Gamification to Perceived Enjoyment and Customer Personalized Experience to Increasing Customer Satisfaction and Customer Loyalty	30 - 36
1571025849	Rainfall Forecasting Using Hybrid Learning Method	37 - 41
1571027051	Organic Waste Management Information System based on SCM and ERP	42 - 48
1571027736	Regression-Based Exploration of Factors Influencing Movie Profits	49 - 53
1571027777	Recognition of Open and Closed Eye Using Residual Networks For Driver Drowsiness Detection: Original and CLAHE- enhanced Images	54 - 58
1571028130	Daing Inside: Development of an Automatic Arduino-based Fish Dryer with Hybrid Power Source	59 - 64
1571028294	Professional Camera VS. Smartphone Camera: A Comparison Of Image Quality In A Low-Budget Production Of The Short Film "Pale Moon"	65 - 70
1571028371	Instagram Augmented Reality Marketing in Boosting Brand Awareness and e-WOM in the Indonesian Bottled Tea Industry	71 - 76
1571028648	Navigating E-Business in Over-the-Top (OTT) Services: Exploring the Importance of Customer Experience (CX)	77 - 82
1571028748	Exploring the Impact of Technostress on Millennial Work-Life Balance in Digital Work: The Mediating Role of Work Well-Being	83 - 88
1571029074	Transitioning to E-Health Platforms for Mental Wellness: The Need for Data-Driven Contemporary Solutions for Professionals	89 - 94
1571029135	Student Satisfaction in Management Education through MOOCs: Insights and Implications for Effective Online Learning	95 - 100
1571029233	New E-Marketing Strategies Through Big Data Optimization in Fisheries MSMEs	101 - 106
1571029245	Finite Element Analysis of Blood Vessels: Understanding Clipping Phenomenon	107 - 111
1571029252	Implementation of Convolutional Neural Network Based on InceptionV3 to Classify Guava Quality	112 - 117

SMART AND EMERGING TECHNOLOGY FOR A BETTER LIFE

(IM) (& IM) (& IM) (& IM) (& IM) (& IM)

.

2024 International Seminar on Application for Technology of Information and Communication

Paper ID	Title	Page
1571031525	Gamification in the Marketplace for Gen Z: Determinants Using Gamified Learning Theory	118 - 122
1571036026	Procedural Low-Poly Buildings using L-System for Turn-based	
	Tactic Game MECH.Al	123 - 128
1571036207	Unveiling the impact of Live-Stream Commerce (LSC) Customer	
	Satisfaction in Online SMEs towards minimizing Cart	
	Abandonment Rate (CAR)	129 - 134
1571036356	Explainable AI in Cybersecurity: A Comprehensive Framework	
	for enhancing transparency, trust, and Human-AI Collaboration	135 - 150
1571036577	Increasing Production Capacity with IoT-based Floating Net	
	Cage Technology for Erorejo Wadaslintang Freshwater	
	Fishermen	151 - 156
1571037476	Narratives from the Field: Big Data's Role in Digital Marketing	
	Transformation	157 - 163
1571037898	Exploring Educator's view on Micro-credentials: A Text Mining	
	Analysis	164 - 167
1571038026	Implement Website Application For Medical Record Using The	
	Prototype Method	168 - 173
1571038083	Human-Computer Interaction (HCI) in Banking: Users' Website	
	Usability Experience and Self-Confidence	174 - 177
1571038108	Role of Teachers in Integrating AI-based Chatbots in School	
	Education	178 - 183
1571038218	Continuity Plan for a Gamified System which Enhance Customer	
	Service Advisor Training in Peru using ITIL 4	184 - 189
1571038234	Art in the Era of Algorithms: Is Generative AI a Friend or Foe for	
	2D Artists?	190 - 195
1571038258	Empowering visually impaired learners: A voice-assisted mobile	
	exam app for scribe-free exams	196 - 200
1571038287	Artificial Intelligence in Massive Open Online Course: A	
	Systematic Literature Review	201 - 206
1571038293	Predicting National Rice Production Using XGBoost Method	
	Based Hyperparameter Optimization	207 - 211

SMART AND EMERGING TECHNOLOGY FOR A BETTER LIFE

2024 International Seminar on Application for Technology of Information and Communication

Paper ID	Title	Page
1571038322	Enhancing Driver Drowsiness Detection through GMM-Optimized CLAHE	212 - 217
1571038358	From Automation to Optimization: Boosting Employee Efficiency and Engagement for Contemporary Human Resource Management	218 - 222
1571038366	The Role of Augmented Reality (AR) in Retail Marketing: Enhancing Customer Engagement and In-store Experiences	223 - 228
1571038390	Proposing Tap-Track Platform for Facilitating Implementation of Button-Driven Smart Services	229 - 234
1571038416	Site Selection with Fuzzy DEMATEL for a Post-Earthquake Temporary Shelter in Türkiye	235 - 240
1571038418	Harnessing technology for financial empowerment: A study on digitally driven financial inclusion	241 - 246
1571038494	Innovative Agricultural Solutions: Utilizing Machine Learning to Combat Rice Leaf Disease in Indonesia	247 - 252
1571038502	Comparative Analysis of Machine Learning, Deep Learning, and IndoBERT Models Using SPAMID-PAIR Dataset	253 - 259
1571038596	Study of Community Event Introduction Service for Promoting In- Home Elderly Social Participation	260 - 265
1571038606	Maturity Model for PCI SLC Compliance for Peruvian Software Development Companies based on CMMI	266 - 271
1571038639	Framework to increase the level of customer satisfaction in telecommunication services in Peru using TQM and Business Intelligence	272 - 277
1571038660	Implementation of a Mixed Triple Logistic Map and the BB84 Quantum Key Distribution for Secure Image Communication	278 - 283
1571038686	Optimizing Mel-Frequency Cepstral Coefficients for Improved Robot Speech Command Recognition Accuracy	284 - 289
1571038706	Comparative Analysis of rPPG Algorithms Across Diverse Countries of Origin	290 - 293
1571038785	ChatGPT and Local Wisdom: An Exploratory Study of Al-assisted Ethnoscience Lesson Planning	294 - 299
1571038793	Banking Meets Crypto: Integration Strategies in a Post- Demonetization Landscape	300 - 306
1571038808	Predicting The Melting Temperature Of Polymers Using Machine Learning	307 - 311
1571038813	Comparative Analysis of the Influence Factors of Webrooming and Showrooming on Consumer's Final Purchase Decisions	312 - 318
1571038832	Identification of Phonetic Patterns of Ablaut and Rhyme Reduplications Using Fuzzy Inference System	319 - 325
1571038858	A Risk Assessment Model for Supply Chain Using a Hybrid Fault Tree Analysis and Analytic Hierarchy Process	326 - 331
1571038890	Decoding the Monkey Pox Outbreak: Unsupervised Machine Learning Using Decision Tree	332 - 335
1571038893	The Evolution of Omnichannel in Digital Era: A Bibliometric Analysis	336 - 340
1571038897	Analyzing Customer Satisfaction Using Chatbots in the Indonesian Banking Sector	341 - 346

SMART AND EMERGING TECHNOLOGY FOR A BETTER LIFE

I MA CALANY CALANY CALANY CALANY CALANY CALANY

1

2024 International Seminar on Application for Technology of Information and Communication

Paper ID	Title	Page
1571038925	A Chaotic Image Encryption Based on Random Noise and Arnold Cat Maps	347 - 352
1571038942	Quality Measurement for Imperceptibility Watermarking Based on PSNR and SSIM using Walsh Hadamard Transform	353 - 358
1571039581	Machine Learning-based Malware Detection on Android Operating System using AdaBoost Algorithm and ReliefF Feature Selection Method	359 - 364
1571039999	Android Malware Detection using Fast Correlation Based Filter and Random Forest Algorithm	365 - 370
1571040025	Analysis of the Influence of Brand Image on Behavioral Intent: A Study on Social Media Advertising and Sales Promotion Content for Local Skincare Products	371 - 376
1571041335	Machine Learning Algorithms For Land Cover Classification Using Hybrid Remote Sensing and Spectral Indices	377 - 381
1571041373	The Impact of POE-LIFE and the Usage of Artificial Intelligence on Students' Mental Health and Authenticity at Bina Nusantara University	382 - 385
1571042063	Gardening Simulator Based on L-System Algorithm	386 - 391
1571042281	Systematic Literature Review on Aspect-Based Sentiment Analysis: Insights from Community Reports	392 - 397
1571042316	Prediction of Total Renewable Energy Consumption using Artificial Intelligence Approach	398 - 402
1571042565	Cybersecurity Data Analytics System Success: An Exploratory Study on U.S Government Agencies	403 - 408
1571042679	Enhancing Machine Learning Algorithms Using Recursive Feature Elimination For Student Performance Prediction	409 - 414
1571042772	SVM-Classified FaceNet and Eigenface Models under Lighting and Occlusion Variations for Face Recognition	415 - 420
1571042886	Advanced Dehazing of Single Satellite Imagery Using Enhanced Dark Channel Prior and Refined Transmission	421 - 427
1571043075	Identifying Sentiment in User Reviews of Get Contact Application using Natural Language Processing	428 - 433
1571043164	Blockchain-based Framework for Securing and Enhancing Internet of Things Ecosystems	434 - 439
1571043171	The Impact of Artificial Intelligence in the Creative Industries: Design and Editing	440 - 444
1571043180	Comparative Performances of the Convolutional Neural Network based Transfer Learning Models for Classification of Dental Disease	445 - 450
1571043203	Scoping Review Of Sign Language Recognition: An Analysis of MediaPipe Framework and Deep Learning Integration	451 - 458
1571043227	Image Improvement of Underwater Objects Using the Lucy- Richardson Method with the White Balancing Technique with the Gray World Model	459 - 464
1571043387	Filter Gabor and SMOTE Method-Based Convolutional Neural Network for Diabetic Retinopathy Classification	465 - 470

SMART AND EMERGING TECHNOLOGY FOR A BETTER LIFE

1

2024 International Seminar on Application for Technology of Information and Communication

Paper ID	Title	Page
1571043392	Systematic Literature Review of Software Effort Estimation: Research Trends, Methods, and Datasets	471 - 476
1571043543	Underwater Image Enhancement Based on Color Compensation and White Balance	477 - 481
1571043564	Influencer Marketing Redefined: The Era of AI-Powered Personalization	482 - 488
1571043617	A Comprehensive Evaluation of Machine Learning Classifiers in Named Entity Recognition	489 - 495
1571043649	Improved Vehicle Traffic Detection Using YOLO Algorithm With Brightness and Contrast Adjustment in Low-light Conditions	496 - 501
1571043696	Fine-Grained Sentiment Classification of Public Opinion on Electric Cars in Indonesia Using IndoBERT	502 - 508
1571043703	Lymphoma sub-type classification using DenseNet 169-based Transfer Learning Architecture	509 - 514
1571043704	IndoBERT-based Indonesian Cyberbullying Detection with Multi-stage Labeling	515 - 521
1571043770	Evaluation Of Time Series Forecasting Techniques For Air Quality Prediction: Case Study of NO2 Levels	522 - 527
1571043809	Motorbike Helmet Usage Detection in Foggy Weather Conditions with Dark Channel Prior and YOLOV8	528 - 532
1571043813	Exploring the Impact of Image Downscaling Algorithms on Color Perception	533 - 539
1571043820	Enhancing License Plate Recognition in Foggy Condition Base on Yolov8 and Dark Channel Prior	540 - 546
1571043826	Exploring Algorithmic Approaches for Emotion Classification in Text	547 - 552
1571043889	Machine Learning to Enhance Security in Cloud Computing: A Systematic Literature Review	553 - 558
1571044146	Optimized Machine Learning Models for Heart Disease Prediction: A Performance Analysis	559 - 562
1571044275	The Influence of Social Media on Voter Behavior, Public Opinion, and Partisan Tendencies during Election Campaigns in Indonesia: Systematic Literature Review	563 - 568
1571044298	Analysis on Adaptive Difficulty Adjustment for Player Satisfaction in Game: A Systematic Literature Review	569 - 574
1571044339	Frequency Stability Analysis in IEEE 30 Bus Power System Due to Large Load Addition	575 - 580
1571044376	Significance of Big Data Analytics and The Internet of Things Aspects in Sustainability: A Systematic Literature Review	581 - 586
1571043671	Developing Cerebral Artery Segmentation for Medical Education Tools	N/A

SMART AND EMERGING TECHNOLOGY FOR A BETTER LIFE