

2025 Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT & NCON 2025)

Nan, Thailand

29 January - 1 February 2025



IEEE Catalog Number: CFP25M62-POD
ISBN: 979-8-3315-4328-0

**Copyright © 2025 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:	CFP25M62-POD
ISBN (Print-On-Demand):	979-8-3315-4328-0
ISBN (Online):	979-8-3315-4327-3
ISSN:	2768-4628

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

Eliciting Factor Influences in Using AI Cross-Cultural Communication Translation of Chinese Student Through Text Analysis Approach	1
<i>Qin Wang, Chalermpon Kongjit</i>	
Development of a Virtual Reality World for Avatar Thai Costume Dressing with Integrated e-Commerce System.....	6
<i>Ariyaphorn Yowaphui, Alongkot Aranpoorn, Mananya Nimpisan, Veerapat Janatarajaturapat, Worawith Sangkatip</i>	
Harnessing AI for Agriculture: Thai Handwriting Recognition for Agricultural Accounting and Management Using Vision Transformers	12
<i>Wongpanya S. Nuankaew, Chanapa Phikhason, Watthana Kayowaen, Tatsaneewan Yenwattana, Patchara Nasa-Ngium, Praty Nuankaew</i>	
Study of CVS Causes and Prevention Using Two-Factor Analysis.....	18
<i>Chayaporn Kittichusakul, Nattakarn Kangchart, Supasek Rujivipat, Natsuda Kaothanthong</i>	
Development of a Closed Chamber System for Cultivating Lion's Mane Mushrooms Using an Internet of Things System to Increase Yield and Economic Value	23
<i>Pakorn Suntornmeth, Kanitha Homjun, Worawit Fankam-Ai, Charnyut Karnjanapiboon, Atigorn Sanguansri, Athiphong Deenoi, Sirilux Kaewsirirung</i>	
Evaluating Large Language Models: Challenges, Limitations, and Future Directions	29
<i>Li-Hua Li, Agus Cahyo Nugroho</i>	
Random Forest Classification of Thai Mangoes Namdokmai Sithong, Mahachanok and R2E2	35
<i>Phanuphong Suthawas, Nattapol Aunsri, Saowapa Chaiwong, Rattapon Saengrayap, Sujitra Arwatchananukul</i>	
The Role of Digital Transformation and Bank Size in Enhancing Customer Trust and Banking Performance.....	41
<i>Rochania Ayu Yunanda, Mohamad Heykal, Agustini Hamid, Prasetya Cahya Saputra</i>	
Predicting Public Transport Passenger Using Machine Learning Algorithms	47
<i>Angelo Meza, Annsherly Acuña, Jose Santisteban</i>	
Exploring Young Students' Experiences in IoT Skill Development Through Peer-Assisted Learning	53
<i>Puthyrom Tep, Chinapat Mongkholsiriwattana, Kompakron Pianon, Watchara Thitayanuwat</i>	
Promoting 21st Century Skills in Programming Education Through Collaborative and Problem-Based Learning in Smart Farming.....	59
<i>Porntida Kaewkamol, Jirapipat Thanyaphongphat, Somkeit Noamna</i>	
The Design and Development of Media Formats for Public Relations Books and Applications Using Augmented Reality Technology to Promote Tourism in Chiang Rai Province	64
<i>Khomkrit Jiraboot, Napasorn Phaokla, Panuphan Jitkham</i>	
A Memristor-Based VCO for Switching-Mode PLL System	69
<i>Nahla Elashkar, Ghada Abdel Gawad, Mohamed Aboudina, Hossam A. H. Fahmy, Ahmed Hussein</i>	

Enhancing Performances of Deep Neural Networks with Ensemble Learning Methods for Complex Human Activity Recognition Using Wearable Sensors	73
<i>Sakorn Mekruksavanich, Anuchit Jitpattanakul</i>	
Development and Integration of an Industrial Automation System Based on the MQTT Protocol.....	79
<i>Svetozar YOLOV, Georgi Hristov, Plamen Zahariev</i>	
The Modern 3D Technologies as a Catalyst for the Digital Transformation of the Education and Industry.....	86
<i>Plamen Zahariev, Georgi Hristov, Nina Bencheva, Diyana Kinaneva, Georgi Georgiev, Liliya Ilieva</i>	
Research on the Factors Influencing Consumer Purchase Intention in the Cross-Border Live Streaming E-Commerce of the Cosmetics Industry from Thailand to China	92
<i>Jingting Li, Sirikorn Santirojanakul</i>	
YOLOv8 for Personal Device Screen Detection to Preserve Data Privacy: Enhancing Security Measures in Real-Time Monitoring Systems	98
<i>Apichaya Nimkoompai, Yuenyong Nilsiam, Siranee Nuchitprasitchai, Puwadol Sirikongtham</i>	
Smart Web Application for Recommending the Selection of Equipment for Organizing Activities in Educational Institutions	104
<i>Tanarin Khongtuan, Sakorn Mekruksavanich</i>	
Examine and Assess the Influence of Content Development on Xiaohongshu Platform for Brand Interaction: An In-Depth Analysis of a Minor Stationery Corporation's Strategy	108
<i>Ting Ou, Ekkasit Tiamkaew, Phusit Kornsurin, Sirikorn Santirojanakul</i>	
Broadband Unidirectional Vivaldi Antenna for Radar Application	114
<i>Pattawin Changnam, Pisit Janpangngern, Apichart Intarapanich, Chanchai Thongsopa, Nuchanart Santalunai, Samran Santalunai</i>	
Evaluating the Impact of Gamification-Driven Learning Interventions: Gender Differences in Learning Motivation and Academic Performance	119
<i>Krittawaya Thongkoo, Kannika Daungcharone</i>	
Predicting Test Smell Categories Based on Issue Descriptions Using Information Retrieval and Machine Learning Techniques.....	125
<i>Jiramed Withunsapphasiri, Passakorn Phannachitta, Chartchai Doungsa-Ard</i>	
Developing a Social Skills-Based Framework to Foster Workforce Resilience and Adaptability.....	131
<i>Maytiya Siroros, Pitipong Yodmongkol, Suepphong Chernbumroong, Tippawan Pratumta, Sudarat Suksao</i>	
Assessment of Pain Level in Cats Using Facial Keypoint Detection and the Feline Grimace Scale.....	135
<i>Sompup Pertpraiwong, Thanapat Kangkachit</i>	
Revitalizing Historical Paintings Through Artificial Intelligence	141
<i>Wai Yie Leong</i>	
Negative Binomial Regression Model for Predicting the Number of Tourists in National Parks of Thailand.....	146
<i>Sthaporn Thepsumritporn, Anuchit Jitpattanakul, Sakorn Mekruksavanich, Wikanda Phaphan</i>	

Enhancing Social and Economic Well-Being Through Smart Farming: A Case Study in Pa-Laew Pak Dee Dee, Nan, Thailand	152
<i>Pakorn Suntornmeth, Worawit Fankam-Ai, Kanitha Homjun, Nongnuch Ketui, Atigorn Sanguansri, Sirilux Kaewsirirung</i>	
Virtual Reality for Anxiety Reduction in Individuals with Autism	158
<i>Wai Yie Leong, Yuan Zhi Leong, Wai San Leong</i>	
Comparative Analysis of Semi Management and Full Management Models on Cross-Border E-Commerce Platforms	162
<i>Zhishan Liu, Chommapht Malang</i>	
A Case Study on Customer Knowledge Management Model to Enhance Social Media Marketing Strategies of Chinese Hotpot Restaurant in Chiang Mai	169
<i>Liao Shanshan, Teeraporn Saeheaw</i>	
Aerial Base Station Positioning Evaluation for UAV-Assisted Het-Nets	175
<i>Antoni Ivanov, Vladimir Poulkov, Agata Manolova</i>	
Recapping Knowledge and Practice: Knowledge Transfer in Child Protection Specialist Through Community of Practice in Faith-Based Organization	179
<i>Sarinya Tonprakhun, Chalermpon Kongjit</i>	
Towards an Experience in the Use of Learning Objects in Meaningful Learning Activities Using eXeLearning	185
<i>Roberto Lopez-Chila, Joe Llerena-Izquierdo, Santiago Pozo-Cardoso, Linda Toledo-Herrera</i>	
Emotion Classification Using Transformer-Based Language Model	191
<i>Kamolchanok Laojampa, Konlakorn Wongpatikaseree, Narit Hnoohom, Rangsipan Marukatat</i>	
The Overview of Chinese Electrical Vehicle Components Supply Routes Selection by Using Entropy Weight-TOPSIS Method	197
<i>Jiaming Yu, Jirapat Wanitwattanakosol</i>	
Influencing Factors of DOUYIN Influencer in Thailand	203
<i>Zhu Mayisha, Danaitun Pongpatcharatorntep</i>	
Wideband Circularly Polarized Sequentially-Rotated Cubic-Shaped Dielectric Resonator Array Antenna	209
<i>Nathapat Supreeyattitkul, Titipong Lertwiriayaprapa, Chuwong Phongcharoenpanich, Jessada Konpang</i>	
Perspectives of Mass Media Professionals on AI Adoption in Thailand's News Industry	213
<i>Nantika Prinyapol, Nathawut Punkabutr, Adisorn Na Ubon</i>	
Electrochemical Sensor for Lab on a Chip with Conductive Ink by Screen Printing	218
<i>Anan Saenkhama, Apichaya Chantaraklud, Kessarat Ugsornrat, Triwit Phurksasukkasem, Chanpen Karuwan, Adisorn Tuantranont</i>	
Harnessing AI for Agriculture: Applying Deep Learning Approaches to Detect and Classify Native Thai Vegetables in Specific Areas of Thailand	221
<i>Wongpanya S. Nuankaew, Kittiphob Saibunyang, Rattanawan Hongmo, Thapanapong Sararat, Praty Nuankaew</i>	
MHICuS-Based Fourth-Order Active Band-Pass Filter Design Optimization	227
<i>Wattanawong Romsai, Chaiyo Thammarat, Sarot Hlangnamthip, Deacha Puangdownreong</i>	

Enhancing LMS Design Through SUS Analysis and Biometric Usability Testing	231
<i>Min Thuta Naing, Shwe Sin Tun, Shwin Pyone Thu, Soe Yu Yu Kyaw, Prasara Jakkaew</i>	
Machine Learning Based Pose Identification System with Force-Sensitive Resistors for Four-Step Balance Testing	237
<i>Thanapat Sanongyat, Chayapol Kamyod, Punnarumol Temdee</i>	
Optimizing Cocoa Pod Harvest Timing Using the SIMPLE Model: Calibration and Performance Evaluation Across Colombian Regions	242
<i>Prakhar Srivastava</i>	
A Case Study on Digital Marketing and Consumer Behavior for Cheongsam Sales Targeting Chinese Female Customers in Chiang Mai	248
<i>Xiaojing Chen, Ekkasit Tiamkaew, Sirikorn Santirojanakul</i>	
Proposing ChatGPT as a Transformative Tool for Enhancing ESL Speaking and Listening Skills: Bridging Research Gaps in Thai Education.....	254
<i>Sirikanya Dawilai, Thongchai Yooyativong, Chayapol Kamyod</i>	
Satisfaction Analysis of Data and Application Architecture in the Enterprise Blueprint of the Faculty of Dentistry, University of Phayao	259
<i>Duangjai Jaikla, Kaewarin Jandum, Sitthidet Vachirasricirikul</i>	
Data-Driven Strategies for Enhancing User Engagement in Play-To-Earn Games: Segmentation, Privilege Assignment Optimization, and Redemption Behavior Prediction.....	264
<i>Wichayaphan Traithipthomrongchoke, Akaraphol Aeksari, Pudsadee Boonrawd, Siranee Nuchitprasitchai</i>	
The Design of the Conversational Chatbot Using Facebook Messenger to Support Patient Services: A Case Study of a Dental Clinic, University of Phayao	270
<i>Natthanit Payonyim, Kaewarin Jandum, Sitthidet Vachirasricirikul</i>	
Mype Navigator System for Teaching Financial Education to Micro and Small Enterprises.....	276
<i>Xiomara Picon, Claudia Palpan, José Santisteban</i>	
Enhancing Dual Aggregation Approach for Remote Sensing Image Super-Resolution Using Transformer	281
<i>Naveed Sultan, Santitham Prom-On</i>	
Automated Framework for Active Directory Security and Compliance Through Continuous Monitoring and Attack Path Validation	287
<i>Gia-Huy Nguyen, Khai Nguyen, Minh-Tri Luu, Anh-Nhat Nguyen, Tung-Son Ngo</i>	
An Application of SECI Model on Teaching Design and Practices in Chemistry Experiment Course	293
<i>Zhuoyin Li, Wantana Areeprayolkij</i>	
AI for Healthcare: A Classification Model for Personalized Premenstrual Symptoms and Depressive Crisis Risk Tracking Using Data Analytics and Machine Learning.....	299
<i>Praty Nuankaew, Jidapa Sorat, Jindaporn Intajak, Jirapron Inta, Wongpan S. Nuankaew</i>	
Experiential Learning on Baldrige Excellence Framework and Business Model Canvas Applied to Blue Swimming Company	305
<i>Tianlei Duan, Pitipong Yodmongkol</i>	
Main Difficulties in Mental Counselling Among Counsellors in Higher Vocational Colleges.....	311
<i>Yao Liao, Acrapol Nimmolrat</i>	

Slotted Rectangular Microstrip Patch Antenna for 2.4 GHz Applications.....	317
<i>Kamon Tabaiya, Jessada Konpang, Adisorn Sirikham, Sutte Tubtongdee, Nathapat Supreeyatitikul, Phatsakul Thitimahatthanakusol</i>	
Classification Model of Dementia and Heart Failure in Older Adults Using Extra Trees and Oversampling-Based Technique	322
<i>Pornthep Phanbua, Sujitra Arwatchananukul, Punnarumol Temdee</i>	
Classroom Attendance System Using Bluetooth Low Energy.....	328
<i>Amonrat Prasitsupparote, Suwimol Jungjit</i>	
Ecotourism-Based Artificial Intelligence: Case Study in Bekasi Regency.....	334
<i>Nuril Kusumawardani Soeprapto Putri, Sulisty Heripracoyo, Agung Sudjarmoko, Kristien Margi Suryaningrum</i>	
Prism-Shaped Dielectric Resonator Circularly Polarized Antenna with Loop-Shaped Metasurface- Enhanced Reflector	340
<i>Nathapat Supreeyatitikul, Titipong Lertwiriayapapa, Chuwong Phongcharoenpanich, Jessada Konpang</i>	
An Ontology-Based Representation of Knowledge for Specifying Ransomware Behavior.....	344
<i>Manh-Duc Hoang, Duc-Anh Nguyen, Nhat-Huy Nguyen, Viet-Chien Nguyen, Duy-Huy Doan, Viet-Nam Ta, Linh Manh Pham</i>	
Designing the S-Curve Framework for Analyzing Online Teachers' Soft Skills Competency Through Double Diamond Model	350
<i>Juanrui Cao, Chalermpon Kongjit</i>	
A Kano Model Approach to Design Northern Thai Local Experiences Platform.....	356
<i>Wen Xuecheng, Danaitun Pongpatcharatorntep</i>	
Emotion Recognition Using EEG Signals in Human Brain Waves and Deep Learning Approaches.....	363
<i>Sakorn Mekruksavanich, Narit Hnoohom, Wikanda Phaphan, Anuchit Jitpattanakul</i>	
Customer Knowledge Management Model to Enhance Chinese Customer Shopping Experience in Chiang Mai Shopping Mall	368
<i>Xuemo Zhang, Teeraporn Saeheaw</i>	
Inspiring Creativity: A Comparative Study of Hands-On Artifact Interaction and 3D Art Viewing	373
<i>Jirawat Sookkaew, Pipatpong Saephoo, Pheeraphon Changjaikla</i>	
Customer Service Transformation for Admission in Mae Fah Luang University Using Chatbots Technology	378
<i>Subandit Pansombut, Khwunta Kirimasthong</i>	
Dielectric Resonator Diplexer Without Internal Coupling Iris	384
<i>Kamon Tabaiya, Nathapat Supreeyatitikul, Phatsakul Thitimahatthanakusol, Jessada Konpang</i>	
BPMN Implementation Challenges When Used for Service Orchestration	388
<i>Hatim Palitanawala, Sabira Dabeer, Ali Akbar Hathyari, Ramprasad Goturkarnam</i>	
An Augmented Reality-Based Hazardous Waste Management Learning System : A Case Study of Elementary School Students in Chiang Rai Province.....	394
<i>Kemachart Kemavuthanon</i>	

Understanding Human Balance Strategies Through Clustering of Motion Analysis Data	400
<i>Werapat Lapawong, Surapong Uttama, Worasak Rueangsirarak, Punnarumol Temdee, Shanfeng Hu, Nauman Aslam</i>	
MESIAS: A Web Application for Evaluating Ethical and Security Considerations in AI Project Implementation.....	412
<i>Georgina Romani, Cesar Avendaño, Jose Santisteban</i>	
A Hybrid Deep Learning-Based Person Re-Identification Across Multi-Cameras.....	417
<i>Manaschai Aonon, Phasit Charoenkwan, Phudinun Singkhamfu, Porntida Kaewkamol</i>	
OpenAI-Powered NLP for SQL Generation: Enhancing Database Access for Non-Technical Users	423
<i>Yuenyong Nilsiam, Piyaphiphat Khammaw, Siranee Nuchitprasitchai</i>	
A Study of Factors Affecting the Students' Computer Programming Achievement Using Machine Learning Technique	429
<i>Kannika Daungcharone, Phasit Charoenkwan, Krittawaya Thongkoo, Khanita Tumphasuwan, Chaipichit Cumpim</i>	
LINE Sticker Design to Promote Tourism in Chiang Rai Province "The Four Sacred Legends of Lanna"	435
<i>Kasira Phiwongkun, Khomkrit Jiraboot, Mayoona Yaibuates, Panuwat Khanrattaban</i>	
Enhancing Student Support Services for Chinese International Students in Chiang Mai University.....	441
<i>Xiaomeng Bai, Acrapol Nimmolrat</i>	
Orthopedic Walker Fall Detection and Motion Classification Using Bidirectional Gated Recurrent Unit Neural Network	447
<i>Sakorn Mekruksavanich, Narit Hnoohom, Wikanda Phaphan, Anuchit Jitpattanakul</i>	
Ensemble Approaches for Quartz and Silica Gel Identification Using EDX Spectra.....	453
<i>Sitaporn Anektanarajkul, Seksan Laitrakun, Nattapon Chayopitak, Tsuyoshi Isshiki, Sasiporn Usanavasin</i>	
Development of Intelligent Medication Care Taker	459
<i>Areelak Sukkaew, Suppakarn Chansareewittaya</i>	
UNet-Stream for Segmentation of Ultrasound Images of Breast Cancer	465
<i>Suman Sharma, Stanislav S. Makhanov</i>	
The GREENBEAT Project: Optimizing Key Performance Indicators for Sustainable Excellence	471
<i>Vladimir Poulkov, Yana Tsankova, Agata Manolova, Sotir Sotirov</i>	
Growing Beautifully at Regina Coeli: Award-Winning LINE Stickers Reflecting School Values and Identity	477
<i>Manissaward Jintapitak</i>	
Analyzing Chinese Purchasing Behavior Using 4P & 4E to Develop Data-Driven Strategy for Thai Products in Cross-Border E-Commerce	483
<i>Zhaorui Dong, Chalermpon Kongjit</i>	
The Comparative Study of Artificial Intelligence Techniques: DeepMotion Vs. Autodesk Maya in Enhancing 3D Animation Creation and Learning Experiences	489
<i>Setthee Boonchoo</i>	

Classification Models and Variable Selection for SME Credit Risk Assessment in Balance the Data Set.....	493
<i>Sornthun Intharasompong, Anuchit Jitpattanakul, Sakorn Mekruksavanich, Piyada Wongwiwat, Wikanda Phaphan</i>	
Leveraging AI Chatbots to Foster Engaged Community Waste Management: A Case Study of Takhian Tia Community	499
<i>Suwanee Kulkarineetham, Weeriya Supanich, Witchuda Prasatkaew, Pichet Mareo</i>	
Pedagogical Benchmark for Smart Grid Scenarios	504
<i>Hamed Yahoui, Roungsan Chaisricharoen, Wanus Srimaharaj</i>	
Experimental Study of Screen Printed Carbon Paste Electrochemical Sensors for Lab on a Chip	510
<i>Kessarat Ugsornrat, Triwit Phurksasukkasem, Chanpen Karuwan, Wichayaporn Kamsong, Thanakrit Thanacharoenchanaphas, Adisorn Tuantranont</i>	
Improving Robotics and IoT Learning Achievement in Junior High School Students Through a Constructionist Project-Based Learning Approach.....	514
<i>Watchara Thitayanuwat, Puthyrom Tep, Surat Tanprasertkul</i>	
Forecasting Customer Baseline Load Based on Similar Electricity Usage Patterns.....	520
<i>Kanya Pliansaad, Duangjai Jitkongchuen, Panita Thusaranon</i>	
Image Classification and Segmentation for Estimating Calories of Food	525
<i>Udomkan Chanthanuwaitkun, Anuchit Jitpattanakul, Narit Hnoohom</i>	
Topology Study of Urban Railway Networks in Bangkok Metropolitan Area for Route and Distance-Based Centralities.....	531
<i>Pongwit Promsuwan, Shoichiro Nakayama, Hiromichi Yamaguchi, Shun-Ichi Kobayashi</i>	
Shop Floor Productivity Improvement in Original Equipment Manufacturer Company Using ODOO ERP	537
<i>Pharadon Suwannatara, Saranya Maneeroj, Somjai Boonsiri</i>	
Effect of Innovation Relationship Between MNCs and SMEs on China GDP	543
<i>Sha Zhang, Manissaward Jintapiak</i>	
Automating Persona Generation: Leveraging ChatGPT-4 in Educational Digital Services	549
<i>Thanat Wongabut, Unhawa Ninrutsirikun, Chonlameth Arpnikanondt</i>	
Cultural Sensitivity Exploration of Chinese Game Players' Perception Toward Inazuma Japanese Culture in Genshin Impact Using Thematic Approach.....	555
<i>Yuxuan Xu, Chalermpon Kongjit</i>	
Knowledge-Based Graph Exploration Analysis on Customer's Preference of Insurance Services	561
<i>Yingfan Chen, Chalermpon Kongjit</i>	
Enhancing the Production of White Charcoal and Syngas from a Stove with an IoT Airflow Controller	567
<i>Charnyut Karnjanapiboon, Nattapon Wichan, Chakkrapan Thawonngamyingsakul, Kiattisak Sornjai, Kanyaphorn Chaiwong</i>	
Utilizing the Lean Forward Learning Model for Enhancing Student Online English Listening Ability.....	572
<i>Yingying Gui, Chalermpon Kongjit</i>	

Design Optimization Control of Blower in Coffee Roasting Process with Fuzzy Logic Controller	578
<i>Muhammad Masbukhin, Mokh Suef, D Moses L. Singgih</i>	
Enhancing the Puma Optimizer Algorithm for Optimization Problems	583
<i>Sakkayaphop Pravesjit, Krittika Kantawong</i>	
Harnessing AI for Agriculture: Plant Pest Detection on Web Application Using Deep Learning	588
<i>Wongpanya S. Nuankaew, Yotsapron Yangwattana, Sasikan Kamwaree, Thapanapong Sararat, Praty Nuankaew</i>	
Enhancing Cultural Tourism with VR: A Virtual Tour of Wat Pho.....	594
<i>Pitcha Seripanichkarn, Chananart Piyasoranart, San Ratanasanya, Porawat Visutsak</i>	
Developing a RAG Agent for Personalized Fitness and Dietary Guidance.....	600
<i>Min Swan Pyae, Sai Sithu Phyo, Saw Thomas Maung Maung Kyaw, Thet Swe Lin, Nacha Chondamrongkul</i>	
Harnessing AI for Agriculture: Oyster Mushroom Disease Detection with IoT and Web Application on Growing Bags Using Deep Learning.....	606
<i>Wongpanya S. Nuankaew, Phacharapol Sombutthai, Watchrapong Monkhuang, Thapanapong Sararat, Praty Nuankaew</i>	
Non-Invasive Blood Glucose Estimation Through Vascular Contraction Signal Analysis.....	612
<i>Chanidapa Pomarin, Thitiyakon Lakhonphon, Supitchaya Traisaeng, Piyathida Jaroensin, Suchada Tantisatirapong, Theerasak Chanwimalueang</i>	
Enhancing Cybersecurity Awareness Among Users and Employees: A Practical Approach.....	617
<i>Quoc-Tuan Tran, Dang-Phong Nguyen, Tri-Vuong Nguyen, Duc-Minh Dinh, Hai-Lam Vu, Anh-Nhat Nguyen, Tuan-Anh Hoang, Tung-Son Ngo</i>	
AI-Powered Color Restoration of Faded Historical Paintings.....	623
<i>Wai Yie Leong</i>	
Image-Mixed Glitch Sounds.....	628
<i>Noriki Amano</i>	
The Optimal Real-Time Environment with IoT Technologies for Hemp Propagation.....	634
<i>Rabin Palee, Prasert Luekhong, Chanchai Dechthummarong</i>	
The Study of Content Marketing and User Experience of Thai Green Herbal Cream on Chinese S-Commerce	640
<i>Yijia Zhang, Chommaphat Malang</i>	
Design and Simulation of Broken Gate TFET and Its RF Applications	646
<i>Kh. Alisha Singha, Aditya Singha, Swrang Brahma, Karapallav Chutia, Bijoy Goswami</i>	
The Research of Chinese Telemedicine Platform Based on the Competitive Analysis Method.....	651
<i>Wang Yanchao, Pitipong Yodmongkol</i>	
Xianhongshu's Hashtag Utilization for Thai Fragrance Products on Cross-Border E-Commerce	657
<i>Qian Chen, Chommaphat Malang</i>	
Development of Automatic Cartesian Robot Cannabis Seeder Using LabVIEW	663
<i>Rujipan Kosarat, Keattipoom Sangwai, Anan Wongjan</i>	

Integrating Knowledge Graphs and Knowledge Management in Ningxia's Wine Region: A Model for Enhancing Management and Marketing	669
<i>Cheng Xing, Worawit Janchai, Jiaying Liu</i>	
Thai Beef Cattle Recognition for Fattening Farms: An Empirical Study of Cattle Cooperative Practices in Chiang Rai	674
<i>Ant Maw Khon, Myint Myat, Pradorn Sureephong, Qing Fan, Santichai Wicha</i>	
Deep Learning Based Web System for the Automated Diagnosis of Phonological-Phonemic Disorders in Infants	680
<i>Josty Tafur Tafur Gonzales, Joao Basauri Bazalar, Sandra Analía Wong Durand, Alberto Daniel García Nuñez</i>	
A Comparative Study of Validation Methods for Sensor-Based Human Activity Recognition Using Deep Learning Models	686
<i>Sakorn Mekruksavanich, Narit Hnoohom, Wikanda Phaphan, Anuchit Jitpattanakul</i>	
Integrating Marker-Based Augmented Reality into Serious Games for Disaster Risk Management Training: Preliminary Technical Insights from the Philippines	692
<i>Francis Miguel G. Garcia, Lyndon Rom T. David, Rosemay Thea A. Pañares, Kristoffer B. Berse</i>	
Integrative Analysis of Gene Co-Expression Networks Combined with Flux Balance Analysis of Metabolic Models for Insights into Chronic Obstructive Pulmonary Disease	698
<i>Thummarat Paklao, Apichat Suratanee, Kitiporn Plaimas</i>	
Multimedia Learning Theory for Intelligent Teaching Software Evaluation in Chinese Language Courses of Thai Primary Schools	704
<i>Fanli Cui, Wantana Areeprayolkij</i>	
Leveraging Historical Artwork as Digital Arts Inspiration with the See -Think -Wonder -Investigate Imagine (STWII) Thinking Routine	709
<i>Devanny Gumulya</i>	
Development of an E-Commerce System for Designing Identity Patterns of Community and Ethnic Group Products.....	715
<i>Kaewarin Jandum, Sitthidet Vachirasricirikul, Thitinon Maneetume</i>	
Detection of Malnutrition in Children Under 5 Years of Old Using Deep Learning	720
<i>Clover Aguilar, Joel Tucta, José Santisteban</i>	
Exploring Generative AI for Dynamic Carrying Capacity Assessment in Mountainous and Cave Areas: A Framework Development Approach	725
<i>Pruet Putjorn, Jittasak Putjorn, Janyawath Suttumma, Tipsuda Putjorn, Thanakrit Sangchoey, Rachakorn Wachirasirodom, Supparat Sangchatkaew, Kanokwan Kaewuthai, Hathairat Sawasdee, Pit Jitpakdee, Apalai Suksamran, Thanawat Dokchan</i>	
Harnessing AI for Agriculture: Aerial Imagery Analysis for Rice and Weed Classification in Paddy Fields Using Deep Learning	731
<i>Wongpanya S. Nuankaew, Saweevan Kuisonjai, Raksita Keawruangrit, Patchara Nasa-Ngium, Praty Nuankaew</i>	
Improved Cotton Leaf Disease Classification Using Parameter-Efficient Deep Learning Framework.....	737
<i>Aswini Kumar Patra, Tejashwini Gajurel</i>	

Mitigating Data Sparsity in Point-Of-Interest Recommendation Systems Using Multi-Modal User Profiles	743
<i>Sudarat Arthan, Kreangsak Tamee</i>	
Does Data Balancing Play an Important Role in Classifying Road Accident Severity in Thailand?	749
<i>Pichit Boonkrong, Teerawat Simmachan</i>	
The Analysis of Consumer Preferences and Purchasing Behavior of Thai Herbal Products in the Chinese Market of Gold Mint Products Co., Ltd.....	755
<i>Jiali Ouyang, Raslapat Suteeca</i>	
Improving Image Super-Resolution Reconstruction with InceptionV3 and Dual Perceptual Loss	761
<i>Siriwan Chuengtheerapanit, Warawut Kesornsukhon, Kanabadee Srisomboon, Luepol Pipanmekaporn, San Ratanasanya</i>	
Knowledge Audit and Gap Analysis for Strategic Classroom Activities: Improving Active Listening in Lower Grade Students	767
<i>Xiaofeng Zhong, Jirawit Yanchinda</i>	
Designing an AI-Assisted Mobile Phone Application with Food Consumption Management Model to Prevent Household Food Waste in Urban Residents of Jakarta	773
<i>Catharina Carissa Alfiora, Devanny Gumulya</i>	
Experimental Study of Electrochemical Sensor of Lab on a Chip for Depressive Substance Analysis	782
<i>Warisara Boonsiri, Kessararat Ugsornrat, Wichayaporn Kamsong, Chanpen Karuwan, Assawapong Sappat, Adisorn Tuantranont</i>	
Exploration and Exploitation of Consumers' Purchasing Factors Based on Fan Economy for Thai Products	786
<i>Haiwen Huang, Chalermpon Kongjit</i>	
Solving Optimization Problems by a Hybrid Algorithm Based on Sand Cat Swarm Optimization and Invasive Weed Optimization Algorithm.....	792
<i>Sakkayaphop Pravesjit, Krittika Kantawong, Duangjai Jitkongchuen, Arit Thammano, Panchit Longpradit</i>	
Ant Colony Optimization for Multi-Label Correlation-Based Feature Selection Method	797
<i>Suwimol Jungjit, Amonrat Prasitsupparote, Shelena Soosay Nathan, Thanawit Rattanakitkhajorn</i>	
Touch Sensors for Safety in Industrial Automation Systems.....	803
<i>Tanapong Khumyat, Preecha Mahamai</i>	
Fashion Knowledge Management for Business Decision Making (Women Apparel on Zalora Indonesia)	807
<i>Hartanto Susi</i>	
Assessing the Importance of Pinduoduo E-Commerce Platform's Cross-Border Service Quality in Thailand to the Shopping Frequency of Chinese Students at Chiang Mai University	813
<i>Jing Fu, Raslapat Suteeca</i>	
Designing a Gamified Mixed Reality System for Social Skills Development in High-Functioning Children with Autism Spectrum Disorder	819
<i>Natchaya Wongwan, D Perasuk Worragin, Suepphong Chernbumroong, Kannikar Intawong, Kittit Puritat</i>	

Detecting Implicit Subjects in Text	824
<i>Prakhar Srivastava</i>	
From Past to Present: The Role of Ethical Leadership in Shaping Innovation.....	830
<i>Chatchanon Chayabutra, Pittawat Ueasangkomsate</i>	
Digital Transformation in Hospitals: The Impact of RFID on Workflow and Staff Productivity	836
<i>Annmaree Wongsungyang, Keerati Suluksna</i>	
Exploring Challenges in Spoken English Teaching in Junior High Schools	841
<i>Shiyi Zhang, Chalermpon Kongjit</i>	

Author Index