

19 JUNE 2024

13.00 - 14.00

1571014265

1571014322





Room 3

JCSSE 2024 PROGRAM

Software Engineering

Computer Science and

Room 1

Multiple View Classification and Detection of Scaphoid Fractures Using Deep Learning Quantification Method for Gait Symmetry in the Elderly Using Cross-Correlation on an IMU

The 21st International Joint Conference on Computer Science and Software Engineering

Cape Panwa, 19 - 22 June 2024

Room 3 Room 2 Room 1 8.00 - 9.00 Registration **Image Processing 1 Machine Learning 1** Session Chair: Assoc.Prof. Dr.Ekkarat Boonchieng Session Chair: Prof. Dr.Kosin Chamnongthai Hybrid Machine Learning Approach for Microclimate Prediction in Equipment-Operated Open Ventilated Greenhouse Cascaded Architecture for Segmenting Prostate Cancer Lesions in Biparametric MRI 1570993885 1570982078 1570994827 ASDR: Automatic System to Diagnose and Recognize Prediction of Daily Outpatient Volume Using Ensemble Empirical Mode Decomposition and 1570994593 9.00 - 10.20 Long-Short Term Memory, During the Incident 1571010888 Screening of Defects in Al Generated Portraits 1570995155 Detection of a Real Thai National ID Card in Generative AI: How Well Can It Understand Conversational UX? Adaptive Body Part ROI With Triple Stream Approach for Human Action Recognition 1571013790 1570997841 10.20 - 10.35 Coffee Break **Image Processing 2 Machine Learning 2 Computer Educational** Session Chair: Dr.Kla Tantithamthavorn Session Chair: Prof. Dr.Kosin Chamnongthai Session Chair: Assoc.Prof. Dr.Ekkarat Boonchieng Non-Invasive Automatic Drowsiness Detection Using The Impact of Moodle LMS Integration on Group 1571013916 1571009343 Multiple Face Detection and Recognition for 1571014443 Extracting Information From Drug Label Using Image and Text Processing 1571014065 1571008676 Diesel Price Prediction Models With Traditional 1571016964 Towards 3D Serious Game Simulation for Military Time-Series Algorithms and Neural Networks 10.35 - 11.55 Comparative Analysis of Pretrained Deep Neural Networks for Plant Disease Classification Policy GRU-RL: Simplified Music Playlist Recommendation Using Sequential on Reinforcement Enhancing Educational Strategy Through K-Means Clustering: A Study on Academic Departments 1571014114 1571011737 1571017026 Learning Concept Framework on Image-Based Implicit Tourism Recommendation Using Transfer Learning Feature 1571009357 Electromyography-Based Hand Pose Estimation Using Machine Learning 1571012301 12.00 -13.00 Lunch **Opening Ceremony** Keynote Speaker #2: Dr.Patanamon Thongtanunam Keynote Speaker #1: Prof. Dr.Jungpil Hahn 13.30 -16.25 Title: Al and Its Transformative Impact: Implications for Computer Science and Software Engineering Title: Uncovering Hidden Challenges: Designing Data-Driven Solutions for Real-World Software Engineering Session Chair: Asst.Prof. Dr.Nattapong Tongtep Welcome Dinner at Café Andaman 18.30 - 21.00

		ROUIII I		ROUIII Z		ROUIII 3		
4	9.00 - 10.20	Image Processing 3 Session Chair: Dr.Kittasil Silanon		Machine Learning 3 Session Chair: Assoc.Prof. Dr.Krisana Chinnasarn		Invited Speakers (Abstract Papers) Session Chair: Prof. Dr.Yung-Nien Sun		
		1571014354	Applying the ABC Approach for Edge Detection in Unshelled Banana Prawn Images	1571012306	Unveiling Emotions and Themes in Thai Songs via Topic Modeling	100000001	Revolutionizing Stroke Rehabilitation: Objective Assessment of Upper Limb Movement using OpenPose and Machine Learning	
		1571014377	Enhancing Data Collection for Market Basket Analysis Through CNN Object Detection	1571012311	Utilizing Explainable Artificial Intelligence (XAI) to Identify Determinants of Coffee Quality	1000000002	Integrating Advanced AI in Maritime Telemedicine: A Large Language Model Approach Mature Estimation Model of School-Age Children Based on Handwriting Kinetics Data	
		1571014496	Waterline Detection and Water Level Estimation Based on HED Edge Detection	1571012843	Egg Shape as a Generalized Radial Basis Shape for Discard-After-Learn Method in Streaming Data	100000003		
		1571014501	Effectiveness of Classifying Unsafe Children's Toys Using NLP, Deep Learning and Ensemble Learning	1571014033	Leak Signal Collection and Classification in Water Pipelines Using Resource-Constrained Devices		Based of Frank Williams Nillocoop Based	
	10.20 - 10.35	Coffee Break						
202	10.35 - 11.55	Image Processing 4 Session Chair: Dr.Maneenate Puongmanee		Machine Learning 4 Session Chair: Assoc.Prof. Dr.Krisana Chinnasarn		Invited Speakers (Abstract Papers) Session Chair: Prof. Dr.Yung-Nien Sun		
20 JUNE 2		1571014664	3D Mapping of Quadcopters Using Stereo Cameras for Indoor Environment	1571014242	End-To-End Data Characteristics Monitoring for MLOps	100000004	Multimodal Generative Al Model for Diabetes Mellitus Classification	
		1571015392	uitPEclaFL: A Study on PE Malware Classification Using Federated Learning	1571014270	Prediction Chronic Kidney Disease Progression in Diabetic Patients Using Machine Learning Models	1000000005	Key Indicative Features of Lower Limb Fatigue from sEMG Signals Using Machine Learning	
		1571015500	A Study of Noise Reduction Algorithm Using Statistical Optimization in Digital Holographic Microscopy	1571014296	Unlocking the Aroma Profiles of Coffee Roasting Levels With an Electronic Nose Coupled With Machine Learning	1000000006	Anomaly Soft Tissue Detection through Ultrasound with Variational Autoencoder	
		1571015648	Water Supply Forecasting Model in the Chi River From Satellite Images	1571014308	Loan Applicant Anomaly Detection			
	12.00 - 13.00			Lunch				
		Poster Session						
		1571009470	Synthesizing Frontal Electroencephalogram by Conditional Generative Adversarial Networks: A Preliminary Investigation					

Room 2

		Room 1		Room 2		Room 3			
		Image Processing 5 Session Chair: Asst.Prof. Dr.Nawanol Theera-Ampornpunt		Machine Learning 5 Session Chair: Dr.Maneenate Puongmanee					
		1571015726	N Observation Photon Counting Imaging With	1571017028	Estimating Group Fairness Using Pairwise Similarity	Computer Science Cooperative Research Network (CSCRN) Meeting			
	13.30 - 14.50	1571015742	Preprocessing Identifying Common Unsafe Gestures of Grabbing Wheel and Distracting Phone Talk by Appropriate Network	1571017036	Enhancing Hate Speech Classification in Myanmar Language Through Lexicon-Based Filtering				
		1571015911	A Machine Learning Algorithms for Drug Identification: Enhancing Medication Safety in Thailand	1571017092	Fault Diagnosis of Rolling Element Bearing From Vibration Signal Using One Dimensional Convolutional Neural Networks				
		1571016152	Early Detection of Alzheimer's Disease: A Deep Learning Approach for Accurate Diagnosis	1571017103	Analyzing Machine Learning Techniques for Air Passenger Numbers Forecasting				
	14.50 - 15.05			Coffee Break					
20 JUNE 2024	15.05 - 16.25	Image Processing 6 Session Chair: Asst.Prof. Dr.Nawanol Theera-Ampornpunt		Cyber Security 1 Session Chair: Dr.Jakapan Suaboot					
		1571016278	Lightweight YOLOv5-Based Algorithm to Detect Room Nameplates for Autonomous Smart Wheelchai	1570989781	EX-DFL: An Explainable Deep Federated-Based Intrusion Detection System for Industrial IoT				
		1571013860	Comparison of Deep Learning-Based Models for Oral Disease Detection	1570991752	Behavioral Authentication Using Activity-Based Model Segregation in Convolutional Neural Networks	Computer Science Cooperative Research Network (CSCRN) Meeting			
		1571016412	Optimizing LiDAR-Based Depth Map Accuracy Through Multiview Angle Analysis to Enhance Shape Measurement Efficiency	1570993110	for Mobile Sensor Data Malware Classification for Mobile Application Using Permission Manifest				
		1571016413	A Comparative Study of Loss Functions for Arbitrary-Oriented Object Detection in Aerial Images	1570995221	A Scalable and Secure Outsourced IoT Electronic Health Records With Efficient User Revocation Using Fog-Assisted Cloud Model				
	16.25-16.30				Short Break				
	16.30 - 17.50		Image Processing 7 Session Chair: Dr.Kittasil Silanon		Cyber Security 2 Session Chair: Dr.Jakapan Suaboot				
		1571016791	Predicting Calamansi Fruit Yield Using CNN-Based Flower Detection: A Deep Learning Approach	1571004975	Developing Web Application Firewall Using Deep Learning HYDRA Multi-Modal Approach				
ı		1571016744	A 3D Camera Protocol for Object Pose Estimation From Point Cloud in Robot Operations	1571014079	Design and Development of Scalable SIEM as a Service Using Spark and Anomaly Detection				
		1571017021	YOLO for Small Objects in Aerial Imagery: A Performance Evaluation	1571014407	A Design and Development of Web Application Vulnerability Detection System Using Graph-Based Modeling Analysis Over CAPEC				
		1571017022	Factors Influencing the Behavioral Intention of Elderly Toward Self-Ordering Kiosks	1571016981	Automating Hidden Gambling Detection in Web Sites: A BeautifulSoup Implementation				
	18.30 - 21.00				Banquet at Panwa House				
			Room 1		Room 2		Room 3		
			Software Engineering 1		Data Science 1		Health Informatics 1 Session Chair: Asst.Prof. Dr.Jirawat Thaenthong		
	9.00 - 10.20	1570993134	Session Chair: Asst.Prof. Dr.Adisak Intana Development of the Topic Tagging System for Thai	1570993480	on Chair: Asst.Prof. Dr.Noppon Lertchuwongsa The Use of Clinical Language Models Pretrained on Institutional EHR Data for Downstream Tasks	1571001633	Measuring Patient Similarities in Clinical Data		
		1570995321	and English-Translated Web Contents Shared Control-Based Al-Empowered Framework	1571013823	Investigating the Influence of Psychologists'	1571004546	Repository Through Graph Representation PSD-CNN Approach for Subject Independent		
		1571013886	for Real-Time Synthesis of Metaverse Avatars Typhon: Automatic Recommendation of Relevant		Recommendations on Thai Juvenile Court Judgements	1571011214	Dementia Recognition From EEG Signals Lateralizing Seizure Onset Zone Through Interictal Sleep Scalp EEG High-Frequency Oscillations		
		1571013894	Code Cells in Jupyter Notebooks See to Believe: Using Visualization to Motivate	1571013971	Enhancing Auto Insurance Fraud Detection Using Convolutional Neural Networks	1571013096	Professional-Level Classification for Healthcare		
	10.20 - 10.35		Updating Third-Party Dependencies	1571014343	Bit-Level Affixation Text Compression Algorithms Coffee Break		Articles		
			Software Engineering 2	Data Science 2		Health Informatics 2 Session Chair: Asst.Prof. Dr.Jirawat Thaenthong			
		1571014267	Session Chair: Asst.Prof. Dr.Adisak Intana Developing Eternal Learning Model Trainer System to Support Continuous Knowledge Integration and Cognitive Growth	1571014371	Machine Learning Models to Investigate Startup Success in Venture Capital Using Crunchbase Dataset	1571013282	Data-Driven With Process Mining to Analyze and Identify Key Features for No-Show Risks in Patients With Chronic Diseases to Achieve Treatment		
	10.35 - 11.55	1571014338 1571014357	Integration Model for Face Registration Checkpoint Online Low-Cost Air Quality Monitoring System	1571014393	A Comparative Study of DenseNets for Vietnamese Traditional Music Genre Classification	1571014234	Improvement BERT Based Model for Robust Mental Health Analysis in Clinical Informatics		
		1571014937	Using LoRa-Based Communication Enhancing Usability and Learner Engagement:	1571014410	A Framework for Automatic Root Cause Analysis of Network Failure on MPLS Network	1571016855	Representation Learning Technique in DNA Sequence Classification for SARS-CoV-2 and		
2024			A Heuristic Evaluation of the Al-Enhanced Video Drama Maker App	1571014430	Classification of Android Malware From Binary Code Using Ensemble Method With Recursive Feature Elimination		Pathogenic Viruses		
E 2	12.00 - 13.00								
JUNE			Software Engineering 3 Session Chair: Dr.Apichart Vasutapituks		Data Science 3 Session Chair: Dr.Isoon Kanjanasurat		Human Computer Interaction Session Chair: Prof. Dr.Damir Vusić		
21 J		1571015661	An Investigation of Machine Learning Algorithms for Predictive Maintenance in High Pressure Processing Systems	1571014462	Enhancing Market Making Strategies With Deep Reinforcement Learning-Based Quoting Decisions	1571013597	A Research on the Usability Evaluation of Telecommunication and Navigation Applications in In-Vehicle Infotainment Systems		
	13.30 - 14.50	1571016749	The Effects of Mixed Reality-Based Badminton Training System on the Hitting Accuracy of Badminton and Cybersickness	1571014472	Enhancing Money Laundering Detection Addressing Imbalanced Data and Leveraging Typological Features Analysis	1571012973	User-Centric Design: Adjective Rating Scale for Conversational Agent Interaction		
		1571016891	Enhancing Agile Software Development: A Novel Approach to Automated Requirements Prioritization	1571016722	Mass-Ratio-Average-Absolute-Deviation Based Outlier Factor for Anomaly Scoring	1571016679	Development of Autonomous Mobile Service Robot as A Reception in Department Stores		
		1570983597	Regularized Linear Fractional Programming for Implementing Digital Phase Compensators	1571000742	Quantum Benchmark Suite for IBM's Backend Based on SupermarQ	1571017073	Influence of Augmented Reality on User Experience in E-Commerce		
	14.50 - 15.05				Coffee Break	,			
	15.05 - 16.45		Information Retrieval & NLP Session Chair: Dr.Apichart Vasutapituks		mputer Networks & Communications on Chair: Assoc.Prof. Dr.Sinchai Kamolphiwong		Artificial Intelligence Applications Session Chair: Dr.Phet Aimtongkham		
		1570995479	Extracting Aspect-Based Economic Sentiments From Thai Social Media Text	1571012541	Graph Neural Network Performance Analysis in the Cell-Free Massive MIMO Wireless Systems	1571013496	Estimation of Major Seismic Activities in Thailand Using Fourier Transform		
		1571012858	Backward Inverted Lists Approximate String Matching Algorithm	1571012543	Adapting Graph Structure for IoT Network: A Performance Analysis	1571013804	An NLP-Based Approach for Detecting Ambiguity of Thai Software Requirements Specification		
		1571014282	Thai Question Text-To-SQL Parsing Using Transformer	1571015658	Maximizing the Lifetime of Wireless Sensor Networks: Integrating K-Means Clustering With LEACH Protocol to Improve Energy Efficiency	1571016946	Development of Al Chatbot for Tourism Promotion: A Case Study in Ranong and Chumphon, Thailand		
		1571017027	Exploring the Impact of Error Type Features Integration on Transformer-Based Myanmar Spelling Correction	1571016893	A Flexible and Cost-Efficient Protection Scheme for SDN-Based 5G Backhaul Network	1571016947	Named Entity Recognition for Thai Historical Data		
		1571014276	Automated Face Selection and Censoring on Image and Video Using Artificial Intelligent	1571016934	Signal Strength and Energy Consumption on Various Internet of Things Communication Protocol Using Heltec ESP32 LoRa	1570999687	M-Stock: Automate Photo Assessment for Enhancing Student Photography Skills With Deep Learning		
42									
207									
UNE 2024	9.00 - 16.30	Excursion with local tours (Optional)*							