The 13th International Conference on Computational Data and Social Networks (CSoNet 2024)

Conference Program

December 16-18, 2024 Bangkok Metropolitan Region (Pathum Thani), Thailand

Dear colleagues and friends,

It is a great pleasure to welcome you to the vibrant city of Bangkok for the 13th International Conference on Computational Data and Social Networks (CsoNet 2024). This year, the conference is hosted by Thammasat University located in the Bangkok Metropolitan Region (Pathum Thani), Thailand.

CSoNet has long established itself as a premier interdisciplinary forum to bring together researchers and practitioners from many different fields. The focus of the conference encompasses a wide range of topics, including big data networks, such as billion-scale network computing, data network analysis, mining, security and privacy, and deep learning.

CSoNet 2024 seeks to address emerging yet important computational problems, with an emphasis on advancing the foundational background, developing cutting-edge theories and technologies and showcasing real-world applications associated with big data network analysis, modelling, and deep learning

We would like to express our appreciation to all contributors – authors, speakers and participants who have enriched this conference with their expertise and insights. We extend our deepest gratitude to the dedicated members of the conference committee for their tireless efforts in curating all the aspects of the conference and to all the sponsors.

We are confident that CSoNet 2024 will offer you an exciting and engaging scientific program and the opportunity to exchange ideas, foster collaborations and engage in meaningful discussions.

We also hope that you will enjoy our social program, providing a chance to relax, network and experience the cultural richness and hospitality that Bangkok is renowned for.

Once again, welcome to CSonet 2024!

The 13th International Conference on Computational Data and Social Networks (CSoNet 2024) Conference Program

Conference Location:

Institute of East Asian Studies, Thammasat University (Rangsit Campus), Pathum

Thani, Thailand.

Registration Time: 8.30 Registration Desk: 9.00

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	Day 1 (Dec 16, 2024)
8:30-8:45	Opening
8:45-9:30	Keynote
	Quantum Machine Learning Applications to Autonomous Mobility
	Joongheon Kim
	Chair: Sabrina Gaito
9:30-10:00	Tea Break
Session 1 (Chair: Nutchanon Yongsatianchot)	
10:00-10:15	Bayesian Adaptive Sparse Copula
	Artem Prokhorov and Martin Burda
10:15-10:30	Numerical Modelling of River Flood: A Case Study in the Nhat Le
	River Basin, Vietnam
	Doanh Nguyen-Ngoc, Luc Nguyen-Van, Quang Dinh-Nhat, Viet
	Nguyen-Trung, and Nghi Huynh-Quang
10:30-10:45	Pharmaceuticals Supply Chain Integrity: Ensuring the authenticity
	of drugs and preventing counterfeit medicine by utilizing Smart
	Contracts, NFT, IPFS, and Distributed Ledgers
	Bang Le, Khanh Vo Hong, Minh Triet Nguyen, and Tuan Phat Tran
	Truong
10:45-11:00	Query-Decision Regression for Misinformation Prevention in Social
	Networks
	Siqi Wang, Jiahao Xie, Yifan Wang, and Guangmo Tong

11:00-11:15	Enhancing Poultry Disease Classification with Data Augmentation and Ensemble Learning Van-Thuan Tran
11:15-11:30	Graph-based Approaches for Image Space Exploration and
	Representative Set Selection Alexander Veremyev, Alexander Semenov, Eduardo Pasiliao, and
	Vladimir Boginski
11:30-11:45	Leveraging Auto-Distillation and Generative Self-Supervised
	Learning in Residual Graph Transformers for Enhanced
	Recommender Systems Youssef Mourchid, Alice Othmani, and Eya Mhedhbi
11:45-12:00	TIP: Predicting Tipping for User-Centered Misinformation
	Prevention
	Youval Kashuv, Raed Alharbi, and My T. Thai
12:00-13:30	Lunch
13:30-14:15	Keynote Facility Location Games, a Gem in Mechanism Design
13.30-14.15	Minming Li
	Chair: Bo Li
	Session 2 (Chair: Pakorn Uttayopas)
	Classifying Lexical Variations in Thai Social Media: A Machine
14:15-14:30	Learning and LLMs Approach
14:15-14:30	Learning and LLMs Approach Pimmada Chirawat, Akkharawoot Takhom, Prachya Boonkwan,
14:15-14:30 14:30-14:45	Learning and LLMs Approach Pimmada Chirawat, Akkharawoot Takhom, Prachya Boonkwan, Dhanon Leenoi, and Tharathon Utasri
	Learning and LLMs Approach Pimmada Chirawat, Akkharawoot Takhom, Prachya Boonkwan, Dhanon Leenoi, and Tharathon Utasri Agent-Based Modelling Approach to Support Strategic Planning for EV Charging Stations in A University Campus
	Learning and LLMs Approach Pimmada Chirawat, Akkharawoot Takhom, Prachya Boonkwan, Dhanon Leenoi, and Tharathon Utasri Agent-Based Modelling Approach to Support Strategic Planning for EV Charging Stations in A University Campus Doanh Nguyen-Ngoc, Luca Ambrosino, Linh Do-Bui-Khanh, Khai
14:30-14:45	Learning and LLMs Approach Pimmada Chirawat, Akkharawoot Takhom, Prachya Boonkwan, Dhanon Leenoi, and Tharathon Utasri Agent-Based Modelling Approach to Support Strategic Planning for EV Charging Stations in A University Campus Doanh Nguyen-Ngoc, Luca Ambrosino, Linh Do-Bui-Khanh, Khai Nguyen-Manh, Giuseppe Calafiore, and Laurent El Ghaoui
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15:45-16:00	Classify bone fractures in X-ray images
	Tu Hoa, An Ho, Vi Ly, Son Huynh, and Binh Nguyen
16:00-16:15	Thai Legal Fact Classification of Property-Related Offences Using
	Finetuned BERT Modelling
	Sirawit Chokphantavee, Sorawit Chokphantavee, and Somrudee
	Deepaisarn
16:15-16:30	Gradient Upsampling for Enhanced Image Resolution and
	Classification
	Alexander Semenov, Chaity Banerjee Mukherjee, Vladimir
	Boginski, Eduardo Pasiliao, and Tathagata Mukherjee
16:30-16:45	Classifying Historical Cuisines Using Word Embeddings and
	Machine Learning Models: A Comparative Study
	Yusa Ece Demiral and Ali Alsahag
16:45-17:00	Agent-Based Modeling Approach in Single Fish Population
	Management
	Doanh Nguyen-Ngoc, Thi Quynh Anh Tran, and Tri Nguyen-Huu
17:00-17:15	Visual-based Navigation of Education Mobile Robot using Transfer
	Learning with Teachable Machine
	Nutchanon Yongsatianchot, Pradya Prempraneerach, Pakorn
	Uttayopas, Yutana Chongjarearn, Akkharawoot Takhom, Pattiya
	Thongkruer, and Kanchana Silawarawet
17:15-17:30	Tracing Farmers' Protests Online in Europe 2024
	Andrzej Jarynowski, Alexander Semenov, Daniel Platek, and Vitaly
	Belik

Day 2 (Dec 17, 2024)	
8:45-9:30	Keynote
	Modeling to Support Sustainability Science: How Open Agent-
	based Platforms Can Foster Transdisciplinary Approaches
	Alexis Drogoul
	Chair: Akkharawoot Takhom
9:30-10:00	Tea Break

10:00-10:15 Energy-Driven Riemannian Block Matching Dung Ngoc Le Ha and Hiep Xuan Huynh 10:15-10:30 TVGN: Mastering Predictions of Information Transmissibility in Time-Varying Networks Xinrui Shi and Yupeng Li 10:30-10:45 Energy Distance-Based EBM for Skin Lesion Classification: A Novel Approach Quyen Van Vo and Hiep Xuan Huynh 10:45-11:00 Multivariate Distribution Modeling via Multidimenionsal Conditional Cross-Entropy Loss Functions in Neural Networks Alexander Semenov, Vladimir Boginski, and Eduardo Pasiliao 11:00-11:15 A One-dimensional Generative Diffusion Model for Network Traffic Dataset Generation Hung Le Viet, Khoa Tran Dinh Minh, and Pham Nhut 11:15-11:30 Influence Maximization Considering Stochastic Network Topology Zhecheng Qiang, Eduardo L. Pasiliao, and Qipeng Phil Zheng 11:30-11:45 AquaSense: Smart System for Water Quality Monitoring and Reporting using Empathy Wiwit Suksangaram and Mahasak Ketcham. 11:45-12:00 Blockchain-Driven Pediatric Vaccine Management: Utilizing RSA-Encrypted NFTs, and IPFS for Secure Solutions Bang Le, Khanh Vo Hong, Minh Triet Nguyen, and Tuan Phat Tran Truong 12:00-13:30 Lunch Session 5 (Chair: Tho Quan Thanh) 13:30-13:45 Comparison on Basic Image Augmentation Techniques for Skin Disease Image Classification Model Development Nawarerk Chalarak. NFTs in Knowledge Management: Utilizing Blockchain Applications for Data Sharing Ngan Nguyen, Trung Phan, and Tuan Phat Tran Truong 14:00-14:15 Optimized Deep Learning Based Phishing Email Detection using BERT and Hill Climbing Algorithm		Session 4 (Chair: Pradya Prempraneerach)
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BERT and Hill Climbing Algorithm	14:00-14:15	
		BERT and Hill Climbing Algorithm

	Akshat Gaurav, Brij B. Gupta, Arcangelo Castiglione, Shavi Bansal, and Kwok Tai Chui
14:15-14:30	The Multifaceted Role of Trust and Reputation in the Digital Age: A Comprehensive Review Thi Kim Anh Vo
14:30-14:45	Intestate Inheritance Allocation Algorithm According to Thai Law using Bottom-up Pruning Approach Sorawit Chokphantavee, Sirawit Chokphantavee, and Somrudee Deepaisarn
14:45-15:00	Energy-Based Learning for Robust Fake News Detection: A Graph Neural Network Approach with Trainable Cost Function Mao Nguyen Xuan, Dang Le Nguyen hai, Tan Huynh Ngoc, Minh Phan Le Nhat, Thien Pham Cong, and Tho Quan Thanh
15:00-15:30	Tea Break
	Session 6 (Chair: Qipeng Phil Zheng)
15:30-15:45	Dynamic Threshold for Image Retrieval Varintorn Sithisint, Awirut Phuseansaart, Jittapat Chanyarungroj, Thittaporn Ganokratanaa and Mahasak Ketcham.
15:45-16:00	Optimizing Escape Routes in Active Shooter Scenarios: A Comparative Study of Pathfinding Algorithms Apisan Janwangphom, Surasit Uypatchawong and Pokpong Songmuang.
16:00-16:15	Machine Learning on Metabolomic Profiles from Fecal to Identify Plant-based Food Intake Natnicha Charoenwong, Krerkpon Rattanapoom, Umaporn Uawisetwathana, Awanwee Petchkongkaew, Kritanat Chungnoy, Surasit Uypatchawong and Pokpong Songmuang.
16:15-16:30	Tourist Behavior-Based Buddhist Tourism Recommendation Using Image Classification Surachart Buachum, Kritanat Chungnoy and Phattaramon Klaasa.
16:30-16:45	Evaluating Salary Prediction Models for Graduates Using Dimensionality Reduction and Machine Learning Techniques Surasit Uypatchawong, Kritanat Chungnoy and Pokpong Songmuang.

16:45-17:00	Features Analysis of Respiratory Disease in Thailand Kunanon Kongchatree, Ongon Suriyo, Natvara Pichedpan,
	Rachada Kongkachandra and Pokpong Songmuang.
17:00-17:15	Al implementations on Circular Economy: A Systematic literature
	review
	Pattarapol Tongyodkaew and Pokpong Songmuang.
18:00 - 20:00	Banquet
	Location: Calling Craft & Common https://g.co/kgs/xYv3wtJ
	Instruction: Take the shuttle bus from the conference venue.

Day 3 (Dec 18, 2024) (Online Session)		
Session 7 (Chair: Akkharawoot Takhom)		
9:30-9:45	Approximate core allocations for vertex cover games Haitao Wang, Han Xiao, and Qizhi Fang	
9:45-10:00	Distributed Facility Location Games with Candidate Locations Feiyue Sun	
9:45-10:00	Visual Question Answering for Medical Data Using a Visio- Linguistic Mode Van Hieu Bui	
10:00-10:15	BCCNetAttention: Enhancing Breast Cancer Report through Image Captioning with Convolutional Neural Network and Transformer Architecture Huong Hoang Luong, Thai-Nghe Nguyen, and Nguyen Hai	
10:15-10:30	Navigating Trustworthiness in LLMs: An Examination of Privacy, Security, and Robustness Van Kieu Dang and Phung Lai	
10:30-10:45	Trustworthiness in Vision-Language Models Kiana Vu and Phung Lai	
10:45-11:00	Alzheimer's Disease Diagnosis with Enhanced Densely Connected Convolutional Networks Nguyen Hai, Hung le Quoc, Nam Dai Linh Tran, and Huong Hoang Luong	

11:00-11:1	Advanced Heuristic Solution for the Hospital-Resident Matching	Ī
	with Ties Problem	
	Uyen Nguyen and Sang Tran	