2025 International Symposium on Data Science and Artificial Intelligence (ISDSAI 2025)
14th – 15th May 2025

Asian Institute of Technology, Pathum Thani, Thailand

Day 1: Wednesday 14th May 2025		
08:15 – 08:45	**Registration**	
08:45 – 09:00	**Opening Ceremony**	
	Welcome Remarks	
	Dr. Chutiporn Anutariya, ISDSAI 2025 Chair	
	Dr. Sarawut Ninsawat, Head of ICT Department, AIT	
	Opening Remarks	
	Professor Sangam Shrestha, Dean of School of Engineering and Technology, AIT	
	Dato' Prof. Dr. Shamala K. Subramaniam, Dean of Faculty of Computer Science and Information Technology, UPM	
	Prof. Dr. Maya Silvi Lydia, Dean of Faculty of Computer Science and Information Technology, USU	*Online*
09:00 – 09:30	**Keynote Presentation**	***(Chair: Chutiporn)***
	1 Human-Agentic AI in Personalised Learning for Transformative Education	
09:30 – 10:15	**Technical Session 1: Health Tech, Well-being, and Assistive AI**	***(Chair: Chantri Polprasert)***
	13 Automated Attendance and Child Safety Monitoring System using Face Recognition	
	23 A Telerehabilitation and Telemonitoring framework for Post-Stroke patients: Human Factor Engineering Based Approach	
	14 Oncologychain: A Blockchain-based Personal Health Record Management System for Cancer Patients	*Online*
10:15 – 10:30	**Coffee break**	
10:30 – 11:15	**Technical Session 2: Cybersecurity, Identity & Privacy**	***(Chair: UPM)***
	4 Enhanced Insider Threat Detection with Isolation Forest: A Feature Synthesis Approach	
	20 Hybrid Machine Learning for Real-Time Anomaly Detection System in Computer Network with ELK Stack using System Log and NetFlow Data.	
	10 Convolutional Long Short-Term Memory for Fileless Malware Detection	*Online*
11:15 – 12:15	**Technical Session 3: Smart & Sustainable Agriculture**	***(Chair: Chaklam S.)***
	2 Digital Twin for Young Urban Farming	
	3 Real Time Machine Tracking for Smart Farming with Interactive Visualization Enabled by Edge Computing	
	5 Beyond Gardening: UI/UX Design Challenges and Opportunities in Urban Farming	
	6 CropCare-DANN: Domain Adaptation for Visually Impaired Farmers Using Adversarial Learning	
12:15 – 13:15	**Lunch Break**	
13:15 – 14:00	**Technical Session 4: AI in Education**	***(Chair: Nurul Amelina Nasharuddin)***
	24 Evaluating AI-Generated Literature Reviews: A Comparative Analysis of ChatGPT and Gemini	
	28 Can AI support Students in Mitigating their Own Confirmation Bias?	
	29 A Study on the Foundation and Learning application on Gamification Framework and Cybersecurity Literacy for adult in Social Engineering	
14:00 – 15:15	**Technical Session 5: AI Infrastructure, Green Computing & Optimization**	***(Chair: UPM)***
	33 Performance Improvement of Fog Computing Based Communication Infrastructure with Proximal Policy Optimaztion (PPO) and Evolutionary Computing Algorithm	*Online*
	30 Enhancing the Quality of Clustered Data Using the Perceptual-CURE Approach	*Online*
	31 Reinforcement Learning Approach Based on MCMC and CSA for Marketing Budget Allocation	*Online*
	22 Green AutoML: A Framework for Energy-Efficient Machine Learning Pipelines with Enhancements Based on Green AI Principles	
	26 Generative AI in software development: A case study on real-time SQL code generation using SLMS	

15:15 - 15:30	**Coffee break**	
15:30 – 16:15	**Technical Session 6: AI in Communication and Society**	*(Chair: USU)*
	27 Analyzing the Impact of Phonological Clustering on Sequential Word Level Bangla Sign Language Recognition	
	18 Enhancing Sign Language Recognition with Video Swin Transformer Based on Thai Sign Language and WLASL100	
	25 Robust Sign Language Production System	

Day 2: Thursday 15th May 2025		
08:30 – 09:00	**Registration**	
09:00 – 09:30	**Technical Session 7: Recommender Systems, Vision, and ML Techniques**	*(Chair: Chaklam S.)*
	12 Performance Analysis and Application of the Improved Coherent Point Drift Algorithm with Covariance Descriptors in Point Cloud Registration	
	19 A Hybrid Recommender System based on LightGCN and GraphSAGE	
09:30 – 10:15	**Technical Session 8: Health Tech, Well-being, and Assistive AI**	*(Chair: UPM)*
	9 Gait for Emotion Detection	
	21 Decoding BCI Literacy: Investigating the Effect of P300 amplitude and response time, SSVEP fidelity, Gender, Attention and Times of the Day	
	16 Sarcasm Detection Using Deep Multi-Task Learning	
10:15 – 10:30	**Coffee break**	
10:30 – 11:00	**Technical Session 9: Cybersecurity, Identity & Privacy**	*(Chair: UPM)*
	11 Decentralized Digital Identity: Leveraging Blockchain for Enhanced Privacy and Security	
	30 A New Variant of RSA Cryptosystem	
11:00 – 12:00	**Technical Session 10: Smart & Sustainable Agriculture**	*(Chair: Chantri Polprasert)*
	8 Recommendation Systems for Smart Farmer	
	17 Innovative Applications of Palm Oil in Sustainable Technology	
	7 Transfer Learning-Based Classification of Butterfly Species	
	15 SolanumCare: A Mobile Application for Tomato Disease Detection Using CNN	*Online*
12:00 - 12:15	**Closing Ceremony**	
	Closing Remarks	
	Dr. Romi Fadillah Rahmat, Faculty of Computer Science and Information Technology, USU	*Online*
	Professor Dr. Rahmita Wirza O.K. Rahmat, Faculty of Computer Science and Information Technology, UPM	
	Dr. Chutiporn Anutariya, ISDSAI 2025 Chair, AIT	
12:15 - 13:15	**Lunch**	