

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam **Schedule** **(The times are in Vietnamese time)**

Day-1 (Dec 09, 2025)		
Time (Vietnam)	Session	Description
9:30 to 10:00	Registration	-
10:00 to 10:15	Inauguration	Prayer and lamp lighting Welcome by KK Patel (TPC Chair)
10:15 to 10:45	Keynotes	Hong Nhung Nguyen, Gachon University, Seoul, South Korea Title: Deep Unsupervised LSTM-Autoencoder for Financial Anomaly Detection
10:45 to 12:45	S1 In-person	Technical Session (Venue: Dolce Hanoi Hotel, Vietnam)
		Session chairs:
		Ramesh Dharavath, Indian Institute of Technology, Dhanbad, India; Le Anh Ngoc, Swinburne Vietnam, Vietnam; Dilip Singh Sisodia NIT Raipur, India;
Paper ID	362, 446, 201, 263, 341, 505, 508, 583, 612, 663, 669, 251, 248	
362	Hybrid Deep Learning Architecture for Multivariate Time Series Forecasting: A Study on Urban Traffic Volume Prediction	
446	ResDILI: drug-induced liver injury prediction model using ResNet-18 and ResNet-34	
201	CL-PPIIMS: A Cognitive Load-Based Privacy-Preserving Intelligent Interruption Management System	
263	SECAT30: A Lightweight Image Encryption Scheme using Cellular Automata Rule 30 and Tinkerbell Map for IoT Devices	
341	Defeating Evasion Attacks: An Adversarially Trained Ensemble for Phishing URL Detection	
505	Automated Segregation, Quality Prediction, and Disease Detection of Pomegranates Using Deep Learning	
508	Facial Recognition Based Attendance System : An AI-Powered Solution	
583	Efficient Graph Construction and Neural Networks for Anti-money laundering	
612	Intelligent tools to support decision-making processes and automation of operational activities in adaptive control of production processes	
663	An Efficient Scheduling Method for Taxi Ridesharing	
669	Performance Evaluation of a Hybrid Electric Two-Wheeler Using a Simulation-Based Energy Management Mode	
251	Deep Learning-Based Brain MRI Segmentation: An End-to-End Jupyter Notebook Implementation and Evaluation on the BraTS Dataset	
248	Accurate Crop Yield Estimation by Integrating Remote Sensing and Machine Learning: Evidence from Belagavi District	
12:45 to 1:30	Lunch break	

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

1:30 to 3:15	S2	Technical Session (Venue: Dolce Hanoi Hotel, Vietnam)
	In-person	Session chairs:
		Satyabrata Roy, Manipal University, Jaipur, India; Mariusz Piechowski, WSB Merito University in Poznan, Poland; Małgorzata Jasiulewicz-Kaczmarek, Poznań University of Technology, Poland
Paper ID	128, 35, 426, 262, 378, 316, 317, 527, 590, 600, 601, 618, 167	
128	Efficient LLM Framework Using LORA Based Fine Tuning to Analyze Textual Astronomical Data	
35	Enhancing Fake Review Detection with Transformer-Based Embeddings and Behavioral Features	
426	Enhancing Social Media Trend Forecasting with Sequential and Ensemble Learning	
262	Smart Experimental Design for Engineering Polymer Nanocarriers of Curcumin: A Natural Antimicrobial Approach	
378	Adaptive Marine Predator Algorithm for Global Optimization	
316	Lightweight Real-Time Anomaly Detection on IoT Edge Devices Using Machine Learning	
317	A Voting Classifier Approach for Intrusion Detection in Telecommunication Networks	
527	AI-Powered Dashboard for User-Centric Financial Data Analytics and Intelligent Stock Prediction	
590	AI-Driven Mental Health Prediction and Therapy for Early Adulthood	
600	Empowering WCMS by Automatic Document Classification and Improved the Security Using AI and Blockchain Technology	
601	Intelligent Feature Optimization for Anomaly Detection in IoT-Enabled Smart Urban Networks	
618	An analysis of the modern age susceptibility of compact wearables	
167	Quantum Computing for Machine Learning Applications	
3:15 to 3:30	Invited talk	Marco Dorigo, Université Libre de Bruxelles, Brussels, Belgium Title: Self-organizing Robot Swarms
3:30 to 3:45	Invited talk	Tatiana Kalganova, Brunel University of London, London, UK Title: Green energy efficient AI: from neuromorphic computing to sufficient and useful data roles
3:45 to 4:00	Tea/Coffee break	

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

4:00 to 5:30	S3	Technical Session (Venue: Dolce Hanoi Hotel, Vietnam)
	In-person	Session chairs:
		Snigdha Sen, Manipal Institute of Technology, Bengaluru, India
		Srinidhi N N, Manipal Institute of Technology Bengaluru, Bengaluru
		Bhargav Vyas, CHARUSAT, Changa, India
Paper ID	77, 134, 138, 215, 311, 312, 491, 616, 515, 546, 582, 96, 145, 120	
77	Multiclass Classification of Rice Plant Leaf Diseases Using Image Processing and Vision Transformer (ViT) Deep Neural Network	
134	ChipClaude: A Framework for Natural Language-Based Hardware Design Using LLM Distillation	
138	RULE BASED TRANSLITERATION SYSTEM: AN EXTENSIVE STUDY	
215	A Synergistic Framework: Digital Twin Meets Blockchain for Next-Gen Healthcare Data Security and Analytics	
311	Transforming Breast Cancer Detection in IoT-Enabled Healthcare with a Portable CNN-Based Embedded Diagnostic System	
312	AI-Enhanced Hydrodynamic Modeling for Intelligent Flood Forecasting, Inundation Mapping, and Risk Prioritization in the Panam River Basin	
491	Study Buddy: A Virtual Reality-based Interactive Learning Application for Kindergarten Students	
616	Multi-Acoustic Feature Fusion with Convolutional Networks for Speech Emotion Recognition	
515	Performance Evaluation of Clustering Strategies in Large-Scale WRSN Charging Scheduling Using Metaheuristics	
546	A Robust Parametric Watermarking Framework for Deep Neural Network Ownership Verification	
582	Discovering the significance of LLM's in Medical Science for Disease Detection	
96	INTEGRATED LANE AND WITH ROAD SIGN INTERPRETATION FOR NEXT-GEN VEHICLE COMMUNICATION	
145	Minimizing the weight of conflict-free spanning trees: an extension of hybrid steady-state genetic algorithm using variable neighborhood search	
120	Hand Gesture Recognition System using CNN+LSTM with Attention mechanism	

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

Day-2 (Dec 10, 2025)		
Time (Vietnam)	Session	Description
9:30 to 10:00	Invited talk	Unnati Shah, Utica University, Utica, NY, USA Title: Lightweight AI for Software Requirements Classification
10:00 to 10:30	Invited talk	Ahmad Bazzi, New York University Abu Dhabi, UAE Title: Can Pilots be used for Integrated Sensing and Communications?
10:30 to 1:00	S4 Online	Technical Session (Online)
		Session chairs:
		Ravi Mukkamala, Old Dominion University, VA, USA
		Sonal Jain, SPU, VV Nagar, India
Paper ID	1,5, 23, 25, 127, 256, 330, 453, 454, 142	
1	Hybrid Evolutionary Deep Learning Framework with Optimized Features and Segmentation for Glaucoma Detection	
5	Morphological and Contour-Based Handwritten English Word Segmentation on IAM Dataset	
23	Adaptive Mean Volume Model for Individual Tree and Whole Stand Driven by Diffusion Processes	
25	Algebraic Structure of Knowledge for Interactive Computing	
127	Encoder Decoder based Semantic Image segmentation model developed from the ground up	
256	Toward Transparent and Trustworthy AI for Breast Cancer Diagnosis: Deep Learning, XAI, and Ethical Perspectives	
330	3D CNN for Hyperspectral-Based Water potability Detection	
453	Advanced Motif Recognition in Biological Sequences Using Hybrid Meta-Heuristic Algorithms	
454	Analyzing Library Borrowing Patterns and Predicting Circulation Trends Using Data-Driven Approaches	
142	Variable neighborhood search for the tree t-spanner problem	
10:30 to 1:00	S5 Online	Technical Session (Online)
		Session chairs:
		Kiran Trivedi, University of Wollongong Australia, India
		Rashmi KM, Manipal Institute of Technology Bengaluru, India
		Pooja Gupta, Manipal University Jaipur, India
Paper ID	14, 115, 118, 158, 249, 299, 334, 456, 462, 598, 684	
14	A Hybrid Regime-Switching GARCH–EVT Model for Adaptive Value-at-Risk Estimation in Financial	
115	Toward Human-Level Task Automation with Large Action Models	
118	The CO Pollution Prediction with Recurrent Neural Networks Optimized by Modified Firefly Algorithm	
158	FactFrame-X: A Self-Attention-Enhanced NLP Model with XAI for Classifying Hyperpartisan News in Online Media	
249	LLM-Based Vulnerability Detection in Decompiled Binary Code for Automated Reverse Engineering	
299	Collaborative Multi-Agent LLMs for Autonomous Portfolio Management: An Empirical Study of Distributed AI Decision-Making in Financial Markets	
334	Beyond Keyword Matching: A Contextual NLP System for Profile Screening	
456	Design of a Web-based Platform to Leverage MATLAB Functionality for Digital Engineering	
462	FORMAL-IoT: Formal Models and Adaptive Defense Methodology Against Optical and BLE Side-Channel Attacks on Smart IoT Devices	
598	Formal Specification and Verification of Smart Contract Access Control Policies	
684	Enhancing Early Alzheimer’s Detection with Transfer Learning on MRI Data.	
1:00 to 1:30	Lunch break	

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

1:30 to 3:00	S6	Technical Session (Online)
		Session chairs:
		Jatinderkumar Saini, Symbiosis International (Deemed University), Pune, India
		Harshal Arolkar, GLS University, Ahmedabad, India
Paper ID	84, 130, 183, 195, 207, 211, 214, 294, 358, 451, 161, 49	
84	Performance Evaluation of Clustering Algorithms Applied to Web Services	
130	Design of a Hybrid Termite-Tuna Swarm Algorithm for Dynamic Network Optimization	
183	Temporal-Aware Machine and Deep Learning Models for Intrusion Detection Using Engineered Features and UNSW-NB15 Dataset	
195	Cyberbullying Detection Using Machine and Deep Learning Models on a YouTube Dataset	
207	Assessing the Performance of Multi-Layer Perceptrons in Nanoparticle Property Classification	
211	An Ensemble Machine Learning Based Cyber Attack Detection Framework for IoMT Networks	
214	Enhanced Anomaly Detection in IoT Networks Using Machine Learning and Deep Learning Approaches	
294	Mathematical modeling of practice-oriented natural science problems using artificial intelligence	
358	Bayesian MCMC Modeling of the Initial Mass Function in Young Massive Clusters	
451	Enhancing Reinforcement Learning Performance and Stability through Adaptive Quantile Sampling, Elastic Weight Consolidation, and Multi-Objective Regularization	
161	Linguistic Variations in WhatsApp Chats of Multilingual South Karnataka Natives: A Case Study on Chats Generated by Engineering Student Groups	
49	Fusion Ant Optimization: A Multi-Heuristic Ant Colony Optimization for Steiner Tree Problem in Social Networks Analysis	
1:30 to 3:00	S7	Technical Session (Online)
		Session chairs:
		Pankaj Dadheech, SKIT, Jaipur, Rajasthan, India
		Tapalina Bhattasali, St. Xavier College Kolkata, India
Paper ID	221, 238, 244, 380, 400, 407, 420, 694, 184, 466, 675, 683, 687	
221	Enhancing Swarm Intelligence Algorithms through Integration of Mutation Operators for Optimized Performance	
238	A PSO-Fuzzy Approximate Reasoning Model for Decision Support in Remote Health Monitoring Systems	
244	An Enhanced RPL Objective Function for Congestion Mitigation Using Swarm Intelligence in IoT Networks	
380	LightGBM Classifier Optimized by a Modified Firefly Algorithm for Anomaly Detection in Operational Logs of Cloud Systems	
400	A Quantum Computing integration of Cuckoo Search with Classification Algorithms for Metaheuristic Optimization	
407	Challenge-Based Learning Mindset for Entrepreneurship Education	
420	Optimal Vaccination Strategies for Pandemic Control: A Cost-Driven SIR Model with Domain-as-Particle PSO Optimization	
694	A Machine Learning Framework for Composite Analysis of Sun Spots Activity Using Cosmogenic nuclides	
184	MACHINE LEARNING-DRIVEN ANALYSIS OF URBANIZATION IN HALDWANI USING SENTINEL-2 MULTISPECTRAL DATA	
466	A Multi-Layered Privacy-Preserving Framework for Large Language Models in Healthcare	
675	System Design Methodology and Efficiency Optimization of Wireless Charging for Electric Vehicles	
683	CRNN with BiLSTM-CTC for Robust Recognition of Gujarati Handwritten Words and Lines	

687	A Hybrid AI-Based Model for Secure Image Encryption in Cloud Storage Systems
-----	--

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

3:00 to 3:15	Invited talk	Edgar Weippl, University of Vienna, Vienna, Austria Title: Research Challenges in Applied Security Research
3:15 to 3:30	Invited talk	Donatella Firmani, Sapienza University of Rome, Rome, Italy Title: Data Quality Management in the AI Era
3:30 to 3:45	Tea/Coffee break	
3:45 to 4:30	S8	Technical Session (Online)
	Online	Session chairs:
		Gabriel Gomes de Oliveira, University of Campinas (Unicamp), Brazil;
		Hela Limam, University of Tunis El Manar, Tunisia
Paper ID	166, 178, 236, 241, 261, 366, 435, 473	
166	AI-Based Water Quality Prediction Using Machine Learning and Synthetic Minority Oversampling Technique	
178	Task Scheduling and Resource Optimization using Slime Mold in Edge Computing	
236	Lunar Crater Detection Using Chandrayaan-2 TMC-2 DEM and OHRC Imagery with Yolo v12	
241	Autism Trait Detection Reinvented: A VAE-Based Deep-to-Tree Pipeline for Age-Specific Classification	
261	A Semantic Web Approach to Boost Engagement and Collaboration Among Online Health Communities	
366	From Heavyweights to Lightweights: Efficient Transformer Optimization for Health Misinformation Classification	
435	Adaptive Early Fusion of Clinical Bag-of-Words and Chest X-ray Deep Features for Pulmonary Disease Diagnosis	
473	DEVELOPMENT OF A SYSTEM FOR CREATING BALANCED EDUCATIONAL PROGRAMS	
3:45 to 4:30	S9	Technical Session (Online)
	Online	Session chairs:
		Shreyas J, Manipal Institute of Technology (MIT), Bengaluru, India;
		Gururaj HL, Manipal Institute of Technology (MIT), Bengaluru, India; Sailesh Iyer, Narnarayan Shastri Institute of Technology (IFSICS), Ahmedabad
Paper ID	198, 210, 217, 242, 252, 429, 610, 620, 465, 301	
198	PSKA-UAV: A Pre-Shared Key-Based Authentication Protocol for Secure and Efficient Communication between UAV and GCS	
210	Enhancing Sarcasm Detection with Emoji Semantics and Transformer Architectures	
217	A Simulation Framework for Evaluating Auto-Scaling Strategies in Cloud-Based AI Inference Workloads	
242	Adversarial Robustness in AI-Driven Bioinformatics Pipelines: A Cyber-Biosecurity Perspective	
252	Electrical Engineering Degree Planning and Advising Platform	
429	HAD-IDS: A Hybrid Adversarial Defense Framework for Intrusion Detection Systems	
610	From Taste to Text: Fine-Tuning ASR for Vietnamese Sensory Evaluation Domain	
620	Zero Trust Architecture for Secure IoT-Enabled Medical Device Networks	
465	Detection, Segmentation and Health Classification of Coffee Leaves in the Wild	
301	Machine Learning-Driven Solar Irradiation Forecasting for Optimizing Green Hydrogen Production: A Comparative Analysis of Model Performance and Efficiency	

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

Day-3 (Dec 11, 2025)		
Time (Vietnam)	Session	Description
10:30 to 12:00	S10	Technical Session (Online)
	Online	Session chairs: Samir Patel, PDEU, India; Sagar Kavaiya, CHARUSAT, India;
Paper ID	218, 220, 226, 258, 292, 542, 621, 646, 651	
218	Signature-Based Anomaly-Aware DAG Execution for Efficient Real-Time Data Quality Remediation	
220	Privacy-Preserving ETL Pipelines for Sensitive AI Systems	
226	Adaptive Offloading Strategies for Hybrid Edge-Cloud AI Inference: A Latency-Aware Simulation Framework	
258	Multimodal AIoT Framework with Dynamic Fusion and Federated Learning for Smart Medicinal Plant Farming	
292	Sustainable Biomedical Waste Management: Artificial Intelligence Approach	
542	Multilingual Music Deepfake Detection Using WavLM and MERT Audio Embeddings	
621	A Framework for Prompt-Driven Deep Reinforcement Learning in Modern Predictive Maintenance	
646	CLASSIFICATION OF NON HODGKIN'S LYMPHOMA (NHL) USING OPTIMIZED INCEPTION V3-DBO MODEL	
651	Performance analysis of Non-Orthogonal Multiple Access(NOMA) for advanced 6G cellular radio communication under Nakagami-m fading channel	
10:30 to 12:00	S11	Technical Session (Online)
	Online	Session chairs: Ankit R. Patel, University of Minho, Portugal; Sandeep Gaikwad, Symbiosis International University, Pune, India;
Paper ID	180, 206, 374, 469, 679, 673, 91, 11, 64, 617	
180	Machine Learning based Prediction of High-risk Glaciers	
206	Automatic Extraction of Topographical Features from Satellite Images using Deep Learning Methodolog	
374	Evaluating an ELiPS-Based CP-ABE Enhancement on Server and IoT Platforms	
469	Performance analysis of Quadruple Code Index Modulation (QCIM) with spatially correlated antennas under slow time varying channel for advanced 6G cellular radio communication	
679	HERMES: Design and Deployment of a Hybrid AI/ML Network Security System on ARM Clusters for Edge Environments	
673	An Intelligent Framework for Early Banana Plant Disease Diagnosis Using AI and Precision Agriculture Techniques	
91	A system of ODEs a ected by data uncertainty steered by Monte Carlo on the Web	
11	MALARIA DETECTION USING CNN INTEGRATED WITH AN INTERACTIVE CHATBOT SYSTEM	
64	Enhancing Accessibility: Voice-Driven Applications for Visually Challenged Individuals	

2025 7th International Conference on Soft Computing and its Engineering Applications (icSoftComp2025)
December 09-11, 2025 Hanoi, Vietnam Schedule (The times are in Vietnamese time)

12:00 to 1:30	S12	Technical Session (Online)
	Online	Session chairs: Santosh Bharati, PDEU, India; Amol Vibhute, Symbiosis International University, Pune, India
Paper ID	162, 286, 399, 414, 472, 487, 588, 599, 609	
162	Smart Classrooms with Real-Time Environmental Monitoring: Enhancing Learning through Adaptive IoT and AI Systems	
286	A Comparative Analysis of Supervised Machine Learning Algorithm for Automatic Skin Disease Identification	
399	Mental Health Chatbot - MindEase	
414	Connecting Cultures: A Global Perspective on Advancing Wireless Technology	
472	The Twin Revolution: Scholarly synthesis of DT and their Future	
487	Performance Evaluation and Optimization of an Adaptive Quality of Service Framework for Differential Services in Dynamic IoT Networks	
588	Review Paper on Visualizing and Forecasting Stocks	
599	Reinforcement Learning from Human Feedback for Agentic AI in Finance: Bridging Human Expertise with Autonomous Financial Decision-Making	
609	A Cross-Platform Smart City Utility Management System with MobileNetV2-Based Complaint Classification	
1:30 to 2:00	Valedictory function	