

## I. Tentative Programme

		Date: March 23, 2024	Time: 7:30 - 16:30
No.	Time	Main room	Rooms 1-5
1	7:30 - 8:30	Registration	
2	8:30 - 8:35	MC Introduction	
3	8:35 - 8:40	Welcome Speech from Director of Swinburne Vietnam and Co-chair of ICISN 2024 - Dr. Hoang Viet Ha	
4	8:40 - 8:45	Speech from ICISN 2024 Program Chair: Dr. Vijender Kr Solanki, CMR Institute of Technology, Hyderabad, India	
5	08:45 - 9:10	Academic Keynote: Pham Van Cu	
6	9:10 - 9:35	Keynote: Prof. Alex Stojcevski	
7	9:35 - 10:00	Keynote: Mr. Hoang Nam Tien	
8	10:00 - 10:25	Keynote: Mr. Nguyen Xuan Phong	
9	10:25 - 10:40	Coffee break	
10	10:40 - 11:05	Keynote on: Digitalization in Cooperation	<b>Technical Sessions</b>
11	11:05 - 11:30	Keynote on: AI in digital marketing	
12	11:30 - 12:00	Executive discussion	
13	12:00 - 13:30	Lunch	
14	13:30 - 13:55	Academic Keynote: Pradeep Kumar	
15	13:55 - 14:20	Keynote: Mr. David Lapetina	
16	14:20 - 14:45	Keynote on: Edu-Tech Trends & Application	<b>Technical Sessions</b>
17	14:45 - 15:10	Keynote on: Generative AI & applications	
18	15:10 - 15:35	Keynote on: Smart Applications & Services	
19	15:35 - 16:00	Keynote on: Sustainable Development	
20	16:00 - 16:25	Executive discussion	
21	16:25 - 16:30	Ending speech	

## II. Technical Sessions

Saturday, March 23, 2024	Room 1 (Oral) Computational Intelligence (1) Session chair: Dr. Bui Ngoc Dung	Room 2 (Oral) Image, Video and Signal Processing (1) Session Chair. Dr. Nguyen Huu Phat	Room 3 (Oral) Network and Communication Session chair: Dr. Lam Sinh Cong		Room 5(Poster 1) Session chair: Dr. Nguyen Dieu Linh
10:40-11:00	79: A Novel Directional Finding Algorithm Applying to Underwater Passive Sonar System Based on Sparse Representation Combined Adaptive Comb Filter	26: An Integrated Toolbox of Time-Frequency Techniques for Preprocessing in AI Networks	124: Performance Of The Distance-Based FFR Technique In The Millimetre Wave Cellular Networks		others ID (2-80)
11:00-11:20	84: AloT driven ecosystem for Mood Detection and Music Intervention	35: Crack detection of a beam-like structure under the moving load based on the wavelet analysis	71: Alternative Nature-Inspired Optimizer: An attempt to satisfy the connectivity requirement in Wireless Sensor Network deployment		
11:20-11:40	116: JSONA - From JSON to Annotations and Back: A Generative Software Development Perspective	50: Performance of hybrid models with VGG16-XGBoost and VGG16-LightGBM on fake face image recognition	144:NOMA-Short-Packet Communication for Active RIS-Assisted UAV Network: BLER Analysis		
11:40-12:00	77: Zero-Shot Learning for Salinity Forecasting	55: Bearing Fault Classification Based on Residual Component of Motor Current Signal and Machine Learning	138 (online): A Novel Approach on Medical Health Record Management System Using Blockchain		
	Room 1 (Oral) Computational Intelligence (2) Session chair: Dr. Truong Cong Doan	Room 2 (Oral) Image, Video and Signal Processing (2) Session chair: Dr. Pham Minh Nghia	Room 3 (Oral) Control and Automation Session Chair: Dr. Dao Quy Thinh	Room 4 (Oral, Online) Computational Intelligence (2) Session chair: Dr. Le Minh Duc	Room 5(Poster 2) Session chair: Dr. Nguyen Dieu Linh
14:25-14:45	152: Analyzing online reviews from google maps based on natural language processing techniques to understand customers' experiences	119: An improved forest parameters extraction method applicable to different tree densities from PolInSAR data	10: Efficient Control of Rotary Inverted Pendulum Systems with T-S Fuzzy Descriptor Models	137: Analysis of stress intensity by deep learning using EEG signals	others IDs (from 81-157)

14:45-15:05	136: Optimizing the accuracy of chatbot applications based on the GPT-3.5 turbo platform of OpenAI to provide service prices to customers	7: Lightweight Rendezvous Model Based on Pruning and Knowledge Distillation for Action Triplet Recognition in Laparoscopic Surgery Videos	11: Swing-up and stability control of a Rotary inverted pendulum through Fuzzy-based Sliding mode control	48: Improving Service Broker Policy of the Cloud using Reinforcement Learning through Equally Spread Current Execution Load Balancing Policy
15:05-15:25	117: Modularly Generating Multi-platform Single Page Application Development with Layers of FrontEnd Patterns	20: A real-time and continuous fall detection based on skeleton sequence	74: Adaptive Fuzzy Neural Network-Based Speed Controller for Surface-Mounted Permanent Magnet Synchronous Motor: Design and Analysis	44: Endpoint Detection and Response System: Emerging Cyber Security Technology
15:25-15:45	13: Feature selection based on top frequency	36: Diagnosis Parkinson's Disease using Neural Network and EEG signals	110: Active noise control system based on even mirror Fourier filter using an efficient adaptive algorithm	104: Volterra Integral Equations based Computational Technique for Fuzzy Transforms in Image Denoising
15:45-16:05	139: Classification of Emotions via EEG Signals by Deep Learning Approach	15: Applied the MoDWT and STFT layers to classify the EEG of schizophrenia patients	145: A novel force measurement design for the actuator of a Quadrotor Unmanned Aerial Vehicle	53: A lightweight group authentication framework for Blockchain-Enabled IoT Network in Healthcare systems
16:05-16:25	157: Debugging Human Pose Estimation with Explainable AI	9: Design a Remote Monitoring System for NH3 Concentration in Water Using Camera	122: Synthesis guidance method for Air to Ground missiles (AGM-ASM) in the self-guided phase	54: An efficient Provable Massive Data Migration approach under secure cloud Storage

**DETAIL:**

ID	Title	Presentation Mode
4	<b>An Efficient Administration for Multiple Firewalls in Cloud Environments</b> Submitting author: Ngoc Dung Bui	Poster
7	<b>Lightweight Rendezvous Model Based on Pruning and Knowledge Distillation for Action Triplet Recognition in Laparoscopic Surgery Videos</b>	Oral

	Submitting author: Hung Manh Ha	
9	<b>Design a Remote Monitoring System for NH3 Concentration in Water Using Camera</b> Submitting author: Phat Huu Nguyen	Oral
10	<b>Efficient Control of Rotary Inverted Pendulum Systems with T-S Fuzzy Descriptor Models</b> Submitting author: Thi-Van-Anh Nguyen	Oral
11	<b>Swing-up and stability control of a Rotary inverted pendulum through Fuzzy-based Sliding mode control</b> Submitting author: Thi-Van-Anh Nguyen	Oral
12	<b>Efficient data compression on Healthcare Images using improved Hadamard Transform Based Filter</b> Submitting author: Thu Thi Nguyen	Poster
13	<b>Feature selection based on top frequency</b> Submitting author: Thanh Trinh	Oral
15	<b>Applied the MoDWT and STFT layers to classify the EEG of schizophrenia patients</b> Submitting author: Viet Quoc Huynh	Oral
17	<b>Blending of Resolution-Jumping and Beamforming for Enhanced Tomographic Reconstruction</b> Submitting author: tran quang huy	Poster
18	<b>Hybrid Path Planning for Mobile Robot based on Improved A* Fusion Dynamic Window Approach</b> Submitting author: Thai-Viet Dang	Poster
20	<b>A real-time and continuous fall detection based on skeleton sequence</b> Submitting author: Thuy-Binh Nguyen	Oral
22	<b>Solutions to improve the performance of the algorithm with the adaptive decay time for the spiking neural nets</b> Submitting author: Tuan Van Nguyen	Poster
24	<b>Enhancing Security for Private Cloud when Deployed at Small Department</b> Submitting author: Trung Tran	Poster

26	<b>An Integrated Toolbox of Time-Frequency Techniques for Preprocessing in AI Networks</b> Submitting author: Phuong Thi Nguyen	Oral
27	<b>Is transformer good for vision-based human action recognition with limited data source</b> Submitting author: Thanh-Hai Tran	Poster
30	<b>A solution improves the accuracy in determining orientation parameters for the carrier device</b> Submitting author: Long Van Hoang	Poster
32	<b>Digital learning materials and VR application development in teaching cell biology in high schools</b> Submitting author: Trung Nguyen Quang	Poster
33	<b>Enhancing Whisper Model Performance for Vietnamese Specific Domain with Data Blending and LoRA Fine-tuning</b> Submitting author: Hai Nhu Phung	Poster
35	<b>Crack detection of a beam-like structure under the moving load based on the wavelet analysis</b> Submitting author: Dung Dinh Nguyen	Oral
36	<b>Diagnosis Parkinson's Disease using Neural Network and EEG signals</b> Submitting author: Thi-Nhu-Quynh Nguyen	Oral
38	<b>Medichain: A multi-chain based system for managing prescription medications using Zero Knowledge Proofs</b> Submitting author: Tuan-Dung Tran	Poster
41	<b>Deep Continual Image Classification based on Memory Prototype and Energy-Based Feature Synchronizing</b> Submitting author: Trang Pham	Poster
43	<b>Choosing the BICM-ID system's M-QAM mapper</b> Submitting author: Thang Thi Vu	Poster
44	<b>Endpoint Detection and Response System: Emerging Cyber Security Technology</b>	Oral

	Submitting author: Dhananjay S Deshpande	
45	<b>Detecting Far-side Corrosion of Multi-layer Structure on Aircraft with Time-Series Signal and Explainable Deep Learning Approach</b> Submitting author: Minh Huy Le	Poster
47	<b>Improving THz antenna for 6G wireless communication using a symmetrical SIW structure</b> Submitting author: Thanh Tu Duong	Poster
48	<b>Improving Service Broker Policy of the Cloud using Reinforcement Learning through Equally Spread Current Execution Load Balancing Policy</b> Submitting author: Parag R Kaveri	Poster
49	<b>Advanced Method for Polyphase Coded Radar Signal Classification and Recognition Based on Deep Learning</b> Submitting author: Duong Van Minh	Poster
50	<b>Performance of hybrid models with VGG16-XGBoost and VGG16-LightGBM on fake face image recognition</b> Submitting author: Nam Quy Tran	Oral
52	<b>A 2 × 2 Microstrip Patch MIMO Array for IoT Applications</b> Submitting author: Duc-Nguyen Tran-Viet	Poster
53	<b>A lightweight group authentication framework for Blockchain-Enabled IoT Network in Healthcare systems</b> Submitting author: Pundru Chandra Shaker Reddy	Oral
54	<b>An efficient Provable Massive Data Migration approach under secure cloud Storage</b> Submitting author: Pundru Chandra Shaker Reddy	Oral
55	<b>Bearing Fault Classification Based on Residual Component of Motor Current Signal and Machine Learning</b> Submitting author: Van-Phuc Hoang	Oral
61	<b>Three-phase Single-stage AC-DC Converter of EV Charging System with Reduced Device Count</b> Submitting author: Binh Bao Pho	Poster

62	<b>An Ontology-enabled Approach for Modeling University-Level Training Programs</b> Submitting author: Thi Hoa Hue Nguyen	Poster
63	<b>Traffic congestion detection from camera images using deep learning approach</b> Submitting author: bui Hai phong	Poster
64	<b>Time Efficiency Improvement for Rice Seed Identification using Hybrid Machine Learning Models and Principal Component Analysis</b> Submitting author: Quoc-Trinh Vo	Poster
71	<b>Alternative Nature-Inspired Optimizer: An attempt to satisfy the connectivity requirement in Wireless Sensor Network deployment</b> Submitting author: Duc Chinh Hoang	Oral
72	<b>Advanced Ensemble Machine Learning approach for ECG-based arrhythmia detection</b> Submitting author: Duc Van Khuat	Poster
74	<b>Adaptive Fuzzy Neural Network-Based Speed Controller for Surface-Mounted Permanent Magnet Synchronous Motor: Design and Analysis</b> Submitting author: Anh Tuan Nguyen	Oral
75	<b>Build Feature Vector for String Supporting Pattern Matching on Encrypted Character Data</b> Submitting author: Thuy Nguyen Thi Thu	Poster
76	<b>A Review on Skeleton-based Early Action Recognition</b> Submitting author: Ngoc Dung Bui	Poster
77	<b>Zero-Shot Learning for Salinity Forecasting</b> Submitting author: Khoa Nguyen	Oral
78	<b>Machine Learning driven Framework to predict the Intellectual Disability</b> Submitting author: Mohammad Islam	Poster
79	<b>A Novel Directional Finding Algorithm Applying to Underwater Passive Sonar System Based on Sparse Representation Combined Adaptive Comb Filter</b> Submitting author: Chinh Nguyen	Oral
83	<b>Design and development of vaccine container applied in Vietnam</b> Submitting author: Kien Phan Nguyen	Poster

84	<b>AIoT driven ecosystem for Mood Detection and Music Intervention</b> Submitting author: Vikram Puri	Oral
85	<b>Zero-knowledge-proof-based protocol connecting traditional finance to decentralized finance</b> Submitting author: Thang Viet Doan	Poster
86	<b>A flexible and balanced hardware architecture of RSA modulo exponentiation on FPGA</b> Submitting author: Nguyen Van Nghi	Poster
87	<b>A support training system for table tennis using OpenCV and MediaPipe</b> Submitting author: Kien Phan Nguyen	Poster
88	<b>Efficient Resource Allocation for Multiple Bid Packages and Projects in Enterprise</b> Submitting author: Van-Dang Nguyen	Poster
91	<b>Beyond Traditional Approaches: Multi-Task Network for Breast Ultrasound Diagnosis</b> Submitting author: Tien Dat Chung	Poster
92	<b>Real-time Control Method for a 6-DOF Robot Using an Eye-in-Hand Camera Based on Visual Servoing</b> Submitting author: Van-Truong Nguyen	Poster
96	<b>Window wavelet transform method to improve the accuracy measurement in white light interference</b> Submitting author: Thong Nguyen Doan	Poster
97	<b>A Deep Learning Approach to Embryo Quality Assessment</b> Submitting author: Hieu Le Xuan	Poster
99	<b>Multiple Magnification Learning: Breast Tumor Classification with Deep Learning from Histopathological Images based on Multiple Instance Learning concept</b> Submitting author: Son Trung Nguyen	Poster
102	<b>Improvement of ovarian detection from ultrasound images using ensemble learning</b> Submitting author: Thanh-Hai Tran	Poster
103	<b>A User-centric Key Management for Cloud Encryption using Key Derivation Function</b>	Poster



	Submitting author: Dang Ninh Tran	
104	<b>Volterra Integral Equations based Computational Technique for Fuzzy Transforms in Image Denoising</b> Submitting author: Chandra Shekhar Pant	Oral
106	<b>Authorization model for microservice-based ERP software</b> Submitting author: Tuan-Dat Trinh	Poster
107	<b>A Novel Multi-Task Framework with Super-Resolution Directed Network for Thyroid Nodule Segmentation in Ultrasound Images</b> Submitting author: Sivadi Balakrishna	Poster
108	<b>Semi-supervised Semantic Segmentation using Redesigned Self-Training for White Blood Cell</b> Submitting author: Huy Thanh Nguyen	Poster
110	<b>Active noise control system based on even mirror Fourier filter using an efficient adaptive algorithm</b> Submitting author: Cong Dinh Le	Oral
111	<b>EMG Signal Analysis and Machine Learning for Abnormal Movement Identification</b> Submitting author: Vu Linh Nguyen	Poster
112	<b>ATIU: An Automated Method for Testing Embedded C/C++ Projects Containing Incomplete Units</b> Submitting author: Hieu Minh Do	Poster
116	<b>JSONA - From JSON to Annotations and Back: A Generative Software Development Perspective</b> Submitting author: Duc Minh Le	Oral
117	<b>Modularly Generating Multi-platform Single Page Application Development with Layers of FrontEnd Patterns</b> Submitting author: Duc Minh Le	Oral
118	<b>Combination of Deep Reinforcement Learning and Pure-Pursuit Algorithm for Adaptive Autonomous Mobile Robot Navigation</b> Submitting author: Anh-Tu Nguyen	Poster

119	<b>An improved forest parameters extraction method applicable to different tree densities from PolInSAR data</b> Submitting author: phạm minh nghĩa	Oral
121	<b>User Performance Improvement in Cooperative Ultra Dense Networks utilizing with Presence of Walls</b> Submitting author: Lam Sinh Cong	Poster
122	<b>Synthesis guidance method for Air to Ground missiles (AGM-ASM) in the self-guided phase</b> Submitting author: Phuong Van Do	Oral
123	<b>Improving Flight Trajectory Predictions with Bayesian-Optimized ConvLSTM Models</b> Submitting author: Thi-Lich Nghiem	Poster
124	<b>Performance Of The Distance-Based FFR Technique In The Millimetre Wave Cellular Networks</b> Submitting author: Luu Bach Hung	Oral
128	<b>Convolutional Neural Network Based Attentive Model for Vehicle License Plate Identification</b> Submitting author: Hung Manh Ha	Poster
130	<b>Using hypergraph ansatz on the hybrid quantum-classical image compression scheme</b> Submitting author: Hai Tuan Vu	Poster
131	<b>Automatic classifying informative frames for Upper Gastrointestinal Endoscopy diagnosis using deep learning method</b> Submitting author: Truong Van Duy	Poster
135	<b>A review of applications of machine learning for emissions estimation in diesel engines</b> Submitting author: Thuy Linh Nguyen	Poster
136	<b>Optimizing the accuracy of chatbot applications based on the GPT-3.5 turbo platform of OpenAI to provide service prices to customers</b> Submitting author: Cong Doan Truong	Oral
137	<b>ANALYSIS OF STRESS INTENSITY BY DEEP LEARNING USING EEG SIGNALS</b>	Oral

	Submitting author: Swetha M S Mahendrakar	
138	<b>A Novel Approach on Medical Health Record Management System Using Blockchain</b> Submitting author: Swetha M S Mahendrakar	Oral
139	<b>Classification of Emotions via EEG Signals by Deep Learning Approach</b> Submitting author: Hoang-Thuy-Tien Vo	Oral
143	<b>Estimating Smartphone price ranges using Machine Learning models</b> Submitting author: Cong Doan Truong	Poster
144	<b>NOMA-Short-Packet Communication for Active RIS-Assisted UAV Network: BLER Analysis</b> Submitting author: Le Thi Thanh Huyen	Oral
145	<b>A novel force measurement design for the actuator of a Quadrotor Unmanned Aerial Vehicle</b> Submitting author: Khoa Dang Nguyen	Oral
149	<b>Microactuators Supporting and Sensor Technology an Intelligent Transportation Management System</b> Submitting author: Tan Trung Nguyen	Poster
150	<b>Revolutionizing Urban Transportation with Sensor Technology and Microactuators</b> Submitting author: Tan Trung Nguyen	Poster
152	<b>ANALYZING ONLINE REVIEWS FROM GOOGLE MAPS BASED ON NATURAL LANGUAGE PROCESSING TECHNIQUES TO UNDERSTAND CUSTOMERS' EXPERIENCES</b> Submitting author: Ha Nguyen	Oral
157	<b>Debugging Human Pose Estimation with Explainable AI</b> Submitting author: Ngoc Le	Oral
158	<b>IoT-Enabled Energy Management Solution Using Open IoT Gateway for Smart Grids</b> Submitting author: Ngoc Le	Poster
160	<b>An Approach for Probabilistic SWIPT Beamforming in Secure MISO Channel</b> Submitting author: Phuong Anh Nguyen	Poster

