



Time	Day 01 – Wednesday, 20 Nov 2024
5:30pm – 7:30pm	Registration, Refreshment and Networking (Room: KW-P.1.24, KW-P.1.28 & open space in building P ground level) - To access details about the conference venue, please visit Conference Venue
Time	Day 02 – Thursday, 21 Nov 2024
8:00am – 9:00am	Registration Room: KW-P.1.28 & open space in building P ground level
9:00am – 9:10am	Conference Opening Room No: Room KW-O.1.20, Penrith Campus (Kingswood)
9:10am – 10:30am	Plenary Session 01 Room No: Room KW-O.1.20, Penrith Campus (Kingswood) - Professor Elizabeth Taylor AO, Deputy Chair, Sydney Accord, The International Engineering Alliance, and Former Chair, Washington Accord, Engineers Australia Accreditation Board - Professor Liyin Shen, Qiantang Distinguished Professor, Hangzhou City University, China
10:30am – 11:00am	Morning Tea
11:00am – 11:30am	Plenary Session 02 Room No: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/85134125430?pwd=A46BkRmDAEDHTao7ze6pwYnEKEBkV2.1) Meeting ID: 851 3412 5430 Password: 305012 Session Chair: Associate Professor Rafiqul Islam , Charles Stuart University, Australia - Professor Adel Ali Al Jumaily, Melbourne Institute to Technology, Australia
11:30am – 12:30pm	Technical Session Session Chair: Associate Professor Rafiqul Islam , Charles Stuart University, Australia
11:30am – 11:45am	FMLDS120- Remarks on a Quaternion-Valued Neural Network-Based Direct Controller for Discrete-Time Nonlinear Systems <i>Kazuhiko Takahashi</i>
11:45am – 12:00pm	FMLDS25-Foundation Models in Medical Image Analysis: Overview and Prospects <i>Essam Rashed and Mahmoud Bekhit</i>

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12:00p m - 12:15p m	FMLDS18- Data-Driven Machine Learning HAZMAT Incident Duration Prediction with Random Forest <i>Deo Chimba</i>
12:15p m – 12:30p m	A Symbolic AI Framework for Enhanced Diabetes Prognosis Accuracy and Explainability <i>Iram Wajahat, Amritpal Singh, Fazel Keshtkar and Syed Ahmad Chan Bukhari</i>
12:30p m – 1:30pm	Lunch
1:30pm -1:55pm	Room No: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/85134125430?pwd=A46BkRmDAEDHTao7ze6pwYnEKEBkV2.1) Meeting ID: 851 3412 5430 Password: 305012 Session Chair: Dr Syed Shams Islam , Edith Cown University, Australia Key Speech: Professor Shui Yu Title: Mathematical Artificial Intelligence and Applications
1:55pm – 2:55pm	Technical Session
	Room No: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/85134125430?pwd=A46BkRmDAEDHTao7ze6pwYnEKEBkV2.1) Meeting ID: 851 3412 5430 Password: 305012 Parallel Session 1 Session Chair: Dr Syed Shams Islam , Edith Cown University, Australia
	1:55pm – FMLDS49 Application of Machine Learning Algorithms for Predicting Employee Attrition <i>Mohammad Dabbagh, Kashif Saleem, Adel Al-Jumaily, Mohammad Tahir and Angela Amphawan</i>
	2:10pm – FMLDS14 - Ensemble Stacking for Enhancing an LSTM and ARIMA-Based Hybrid Model for Time Series <i>Alexander Okhuese Victor and Mohammed Inizar Ali</i>
	2:25pm -FMLDS48 Intrusion Classifier Architecture Generation with Zero Prior Knowledge employing Generative Adversarial Networks <i>Bipraneel Roy, Hon Cheung and Chun Ruan</i>
	2:40pm - FMLDS17- Enhancing Adaptive Traffic Control Systems with Deep Reinforcement Learning and Graph Models <i>Ali Reza Sattarzadeh and Pubudu N. Pathirana</i>

Organised By:





<p>Parallel Session 2 Room No: KW-K.G.15(CLS) Zoom Link: Zoom Link 2 (https://uws.zoom.us/j/81984232266?pwd=00hgV7bpaKpGOuJDwwNm0iDw7yMHRU.1) Meeting ID: 819 8423 2266 Password: 518511 Session Chair: Professor Essam Rashed, University of Hyogo, Japan</p>
<p>1:55pm – FMLDS32-SliceInsightNet: Advanced Hybrid Image Segmentation for Spine Annotation in MRI <i>Mina Atef Yousef and Essam Rashed</i></p>
<p>2:10pm -FMLDS47-Early Screening of Breast Cancer Using Machine Learning Algorithms: A Comparative Study <i>Md Aminul Haque, Moname Majumder and Syed Mohammed Shamsul Islam</i></p>
<p>2:25pm – FMLDS156-Neural Network-Based Analysis of Mammography Images for Identifying Breast Cancer Histological Subtypes <i>Muhammad Alqaaf, Ahmad Kamal Nasution, Retno Supriyanti, Abu Asaduzzaman, Md. Altaf-Ul-Amin, Naoaki Ono and Shigehiko Kanaya</i></p>
<p>2:40pm -FMLDS138 - Few-Shot Learning Approach on Tuberculosis Classification Based on Chest X-Ray Images <i>A.A.G. Yogi Pramana, Faiz Ihza Permana, Muhammad Fazil Maulana and Dzikri Rahadian Fudholi</i></p>
<p>Parallel Session 3 Room No: KW-K.G.20(CLS) Zoom Link: Zoom Link 3 (https://uws.zoom.us/j/85166309472?pwd=H8B0cEyURnwoRwbVMMd3F6ri7yBrcb.1) Meeting ID: 851 6630 9472 Password: 727860 Session Chair: Professor Syed Ahmad Chan Bukhari, St. John's University USA</p>
<p>1:55pm – FMLDS23- AI Technologies in Reducing Hospital Readmission for Chronic Diseases: A Recommended Framework <i>Farnaz Farid, Abubakar Bello, Farhad Ahamed, Fahima Hossain, Fariza Sabrina and Shaleeza Sohail</i></p>
<p>2:10pm -FMLDS44- Semantic Plagiarism Detection of Figures in Scholarly Documents: A Conceptual Framework <i>Hafsa Batool, Syed Ms Islam and Naeem Janjua</i></p>
<p>2:25pm -FMLDS158-Enriching Active Inference with Diffusion Models for Free Energy Computation <i>Elias Aoun Durand, Mateus Joffily and Mehdi Khamassi</i></p>

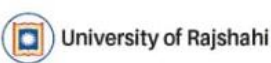
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	<p>2:40pm -FMLDS04-Trade or no trade: A link prediction approach for crude oil exporting countries <i>Ritu Singh</i></p>
	<p>Parallel Session 4 Room No: KW-K.G.21(CLS) Zoom Link: Zoom Link 4 (https://uws.zoom.us/j/87580778783?pwd=RSnfbOFIjAhRpboyaG5Naf7IAwKVIX.1) Meeting ID: 875 8077 8783 Password: 062316 Session Chair: Associate Professor Komalpreet Kaur, Salem State University, USA</p>
	<p>1:55pm – FMLDS98- Impact of P300 Speller Training on Focus and Attention: An EEG Topography Analysis <i>Komalpreet Kaur and Manish Wadhwa</i></p>
	<p>2:10pm – FMLDS112- Correctness Comparison of Open-weight and Proprietary LLMs for Spatial Tasks <i>Luca Morandini, Stephan Winter and Richard Sinnott</i></p>
	<p>2:25pm – FMLDS87- Promoting a Three-Dimensional Warranty Policy using Social Media data Analytics to Optimise Warranty Costs (Product-Service Approach) <i>Zahra Sarmast Hasan Kiadeh, Sajjad Shokouhyar, Melika Motaghian and Anna Levchenko</i></p>
	<p>2:40pm - FMLDS153- Mitigating Cybersecurity Risk of Threat Actors Through Dark Web Browser Fingerprinting <i>Hürol Türen, Rafiqul Islam, Ken Eustace and Geoff Fellows</i></p>
2:55pm – 3:25pm	Afternoon Tea Break
3:25pm – 3:50pm	<p>Room No: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/85134125430?pwd=A46BkRmDAEDHTao7ze6pwYnEKEBkV2.1) Meeting ID: 851 3412 5430 Password: 305012</p> <p>Session Chair: Professor Deo Chimba, Tennessee State University, USA Keynote Speech: Professor Mohammed Bennamoun, The University of Western Australia Title: The Third Dimension: Robot Perception for Real-World Application</p>
3:50pm- 5:00pm	<p>Technical Session Parallel Session 1 Room No: KW-K.1.04(Lecture Theatre)</p>

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<p>Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/85134125430?pwd=A46BkRmDAEDHTao7ze6pwYnEKEBkV2.1) Meeting ID: 851 3412 5430 Password: 305012</p>
<p>Session Chair: Professor Deo Chimba, Tennessee State University, USA</p>
<p>3:50pm FMLDS146- AI-Driven Weight Control System for Optimizing Feed Speed in Cutting Machines <i>Ari Aharari and Farhad Mehdipour</i></p>
<p>4:05pm – FMLDS122 Bioacoustic Data Augmentation Techniques for Data-Driven Apiculture <i>Iman Ardekani, Soheil Varastehpour, Abdolhossein Sarrafzadeh and Kartikeye Dangwal</i></p>
<p>4:20pm FMLDS39- Optimizing Real-Time Data Processing in Resource-Constrained Environments: A Spark and GPU-Driven Workflow for Large Language Models <i>Mina Yousef, Tamer Arafa and Ghada Khoriba</i></p>
<p>4:35pm- FMLDS151 Privacy-Preserving Federated Incremental Learning for Spatial Crowdsourcing: A Survey of Challenges and Methods <i>Md Mujibur Rahman and Quazi Mamun</i></p>
<p>4:50pm ZFMLDS31 GN2DI: A Scalable Graph Neural Network Framework for Spatial Missing Data Imputation in Sensor Networks <i>Amir Eskandari, Saeed Jamshidiha and Vahid Pourahmadi</i></p>
<p>Parallel Session 2 Room No: KW-K.G.15(CLS) Zoom Link: Zoom Link 2 (https://uws.zoom.us/j/81984232266?pwd=00hgV7bpaKpGOuJDwwNm0iDw7yMHRU.1) Meeting ID: 819 8423 2266 Password: 518511</p>
<p>Session Chair: Dr Mohamed Mabrok, Qatar University, Qatar</p>
<p>3:50pm - FMLDS125 On the Challenges and Perspectives of Stroke Segmentation using AI <i>Mohamed Mabrok, Yalda Zafari, Mostafa Mabrok and Essam Rashed</i></p>
<p>4:05pm- FMLDS134- Enhancing Carcass Yield Prediction in Angus Cattle Feedlots: A Comparative Analysis of Machine Learning Models <i>Ricardo Garro, Cara Wilson, David Swain, Anibal Pordomingo and Santoso Wibowo</i></p>
<p>4:20pm FMLDS36- Movie Recommendation System Based on Facial Emotion Recognition <i>Teh-Lu Liao, Yi-You Hou and Yun-Han Tseng</i></p>
<p>4:35pm FMLDS10- Development of UWB NLOS model aided by IMU in Indoor Positioning Systems</p>

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<p><i>Ang Liu, Xiaoying Kong and Sanjeeb Shrestha</i></p> <p>4:50pm FMLDS77 Probabilistic Guarantees for Abductive Inference <i>Kerria Pang-Naylor, Ian Li, Kishore Rajesh and George Montanez</i></p>
<p>Parallel Session 3 Room No: KW-K.G.20(CLS) Zoom Link: Zoom Link 3 (https://uws.zoom.us/j/85166309472?pwd=H8B0cEyURnwoRwbVMMd3F6ri7yBrcb.1) Meeting ID: 851 6630 9472 Password: 727860</p> <p>Session Chair: Dr Farhad Ahamed, Western Sydney University, Australia</p>
<p>3:50pm FMLDS38- A Survey on Stochastic Modeling and Advanced Machine Learning Techniques for Optimizing Internet of Medical Things (IoMT) Systems <i>Alexander Okhuese Victor and Mohammed Ali Intizar</i></p>
<p>4:05pm Z-FMLDS09 (Bangladesh)- IoT Based Drainage Cleaning System and Hydroelectricity Generation: A Case Study for Chattogram Metropolitan Area <i>Md Sanjid Alvi, Mohammed Shakhawat Hossen, Mohammad Golam Mortuza, Hassan Jaki and Mohammad Sanaullah Chowdhury</i></p>
<p>4:20pm ZFMLDS86- Quantum Communication-AI Interface for Real-Time Translation and Secure Transmission in Multilingual IoT Networks <i>Raj Kashikar</i></p>
<p>4:35pm FMLDS105- Generating Scalable and Labelled IoT Intrusion Dataset using Leaky GANs <i>Bipraneel Roy, Hon Cheung and Chun Ruan</i></p>
<p>4:50pm ZFMLDS124 (Korea) BDAPS: Blockchain Decentralized Approach for Privacy-Preserving and Security in IoT Framework. <i>Md Kamran Hussin Chowdhury</i></p>
<p>4:50pm ZFMLDS31 (Iran) - GN2DI: A Scalable Graph Neural Network Framework for Spatial Missing Data Imputation in Sensor Networks <i>Amir Eskandari, Saeed Jamshidiha and Vahid Pourahmadi</i></p>
<p>Parallel Session 4 Zoom Link: Zoom Link 4 (https://uws.zoom.us/j/87580778783?pwd=RSnfbOFIjAhRpboyaG5Naf7IAwKVIX.1) Meeting ID: 875 8077 8783 Password: 062316</p> <p>Session Chair: Dr Golam Rashed, Rajshahi University, Bangladesh</p>
<p>3:50pm FMLDS-19 Assessing the Impact of Secondary Tasks on Heart Rate Variability and Mental Workload in Driving <i>Mary Grace Lubay, Johnson Ihyeh Agbinya, Mohsin Murtaza, Abdulmajeed Alenezi and Chi-Tsun Cheng</i></p>

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	4:05pm ZFMLDS147 Real-time Detection of Diverse Bangladeshi Traffic Signs Using YOLOv8 <i>Md. Habib Ehsanul Hoque, Mrityika Mahbub, Mohd Razali Bin Md Tomari, Rezaul Bashar, Dipankar Das and Md. Golam Rashed</i>
	4:20pm ZFMLDS167- XAI based Cattle Identification with YOLO and SIFT Technique <i>Aashu Katharria, Millie Pant and Kusum Deep</i>
	4:35pm ZFMLDS20 An Ensemble of Machine Learning Algorithms for Detecting Fake News <i>Chayan Paul, Nandan Banerji, Bikash Debnath and Baisakhi Chakraborty</i>
	4:50pm ZFMLDS66 Enhancing Sign Language Interpretation with Multi- headed CNN, Hand Landmarks and Large Language Model(LLM) <i>Chaitanya Kakade, Nidhi Kadam, Vishal Kaira and Rishi Kewalya</i>
6:30pm-10:00pm	Conference Dinner (Dinner Card Holder Only) + Award Ceremony
Time	Day 03 – Friday 22 November 2024
8:30am – 9:00am	Registration
9:00am – 9:25am	Room: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/82758044797?pwd=VKEUEUgZeedl308bo2qrJtFbKhgwXc.1) Meeting ID: 827 5804 4797 Password: 890492 Session Chair: Dr Quazi Mamun , Charles Stuart University, Australia Keynote Speech: Professor Sanjay Jha Title: AI for Cybersecurity: A Double-Edged Sword
9:25am-10:10am	Technical Session Parallel Session 1 Room: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/82758044797?pwd=VKEUEUgZeedl308bo2qrJtFbKhgwXc.1) Meeting ID: 827 5804 4797 Password: 890492
	9:25am - FMLDS168 A comparative study on permissioned based blockchain implementation on healthcare data: from Security and Privacy perspective <i>Md Delowar Hossain, Quazi Mamun and Rafiqul Islam</i>
	9:40am - FMLDS150 DoS Attack Detection enhancement in Autonomous Vehicle Systems with Explainable AI <i>Muhammad Nadeem Ali, Muhammad Imran, Ghulam Bahoo and Byung-Seo Kim</i>

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	9:55am - FMLDS128 Enhanced Feature Selection for Superior Ensemble DDoS Detection in Software-Defined Networks <i>Abdussalam Alashhab, Aisha Edrah and Maythem Abbas</i>
10:10am - 10:40am	Morning Tea
10:40am - 12:30pm	Technical Session Parallel Session 1 Room: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/82758044797?pwd=VkeUEUgZeedl308bo2qrJtFbKhwgXc.1) Meeting ID: 827 5804 4797 Password: 890492 Session Chair: Professor Haiyan Qiao , California State University San Bernardino, USA
	10:40am- ZFMLDS144 General Population Projection Models with Census Data <i>Takenori Tsuruga and Haiyan Qiao</i>
	10:55am- ZFMLDS145 Improving LogP Prediction of Chemical Compounds for Drug Development by a Novel Graph CNN Design <i>Angela Rao and Lei Xing</i>
	11:10am- ZFMLDS163 Efficient Website Classification: Using Small-Scale Machine Learning Models for a Broad Range of Categories <i>Maxime Sobrier</i>
	11:25am-ZFMLDS22 Unified Embedding Based Personalized Retrieval in Etsy Search <i>Rishikesh Jha, Siddharth Subramaniam, Ethan Benjamin and Thrivikrama Taula</i>
	11:40am- ZFMLDS26 Enhanced Stratified Sampling: A Method for Privacy Preserving Big Data Publishing <i>Vikas Thammanna Gowda, Mason Lee and Vanessa Campagna</i>
	11:55am- ZFMLDS40 Developing a novel 3D Graphormer++ model for screening and predicting potential oxide electrocatalysts with greater accuracy and computational efficiency <i>Stanley Chen</i>
	12:10pm- ZFMLDS24 Automated Financial Report Detection, Classification and Structure Recognition Using YOLO and SLANet <i>Muhammad Azmain Mahtab and Jannatim Maisha</i>
	12:20pm – ZFMLDS127 Advancing Predictive Maintenance Research Trends: Using Artificial Intelligence for Enhanced Industrial Reliability <i>Shiyi Xie</i>
	Parallel Session 2

Organised By:





<p>Room No: KW-K.G.15(CLS) Zoom Link: Zoom Link 2 (https://uws.zoom.us/j/85462001485?pwd=Lcb57MGmq0pg6JMFpNuongkZ6pWUJ9.1) Meeting ID: 854 6200 1485 Password: 004298 Session Chair: TBA</p>
<p>10:40am –FMLDS101 Predicting College Admission Results with Machine Learning on Unstructured Online Data <i>Yourui Shao and John Tian</i></p>
<p>10:55am- FMLDS139 Rethinking MedSAM: Performance Discrepancies in Clinical Applications <i>Muhammad Nouman, Ghada Khoriba and Essam Rashed</i></p>
<p>11:10am- ZFMLDS35 Deep Learning for Early Lung Cancer Detection from CT Scans: A Data Science Bowl Approach <i>Krishnaveni Katta</i></p>
<p>11:25am-ZFMLDS72 Promoting Equity: Assessing Algorithmic Fairness in Machine Learning Approaches for Predicting Alzheimer's Disease <i>Kenna Zhang</i></p>
<p>11:40am- ZFMLDS84 Comparing Machine Learning Techniques for Breast Cancer Prediction: A Comprehensive Study <i>Tonmoy Roy and Zsolt Ugray</i></p>
<p>11:55am- ZFMLDS90 Efficient Brain Tumor Classification with Lightweight CNN Architecture: A Novel Approach <i>Priyam Ganguly and Akhilbaran Ghosh</i></p>
<p>12:10pm ZFMLDS28 Image Separation Using Transformer Attention Models <i>Aditya Ranganath, Jocelyn Ornelas Munoz, Robert Smith, Mukesh Singhal and Roummel Marcia</i></p>
<p>Parallel Session 3 Room No: KW-K.G.20(CLS) Zoom Link: Zoom Link 3 (https://uws.zoom.us/j/82753524135?pwd=XqFJbsvhjslrNN1GiTCdHObnHE4vFC.1) Meeting ID: 827 5352 4135 Password: 530093 Session Chair: TBA</p>
<p>10:40am-ZFMLDS50(UK) Clustering based Flood Area Segmentation Benchmarking in Different Colour Spaces <i>Salwa Al Garea, Saptarshi Das and Mark Callaway</i></p>
<p>10:55am ZFMLDS51 Leveraging Time Sequence Deep Learning Models: Impact of Hidden Layers on AI Model Performance in Credit Scoring <i>Adaleta Gicic and Dzenana Donko</i></p>
<p>11:10am-ZFMLDS75 Atmospheric Temperature Prediction Using SVR Models <i>Artem Abdikov and Bernardo Flores</i></p>

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11:25am-ZFMLDS86 Quantum Communication-AI Interface for Real-Time Translation and Secure Transmission in Multilingual IoT Networks <i>Raj Kashikar</i>
11:40am- ZFMLDS29 Consensus Control of Micro Multi-agent Reinforcement Learning Systems for Tumor Treatment <i>Neshat Elhami Fard, Behnaz Merikhi, Rastko R. Selmic and Rhonda McEwen</i>
11:55am- ZFMLDS126 Can GPT Price Options? <i>Ashish Anil Pawar and Divya Chaudhary</i>
12:10pm ZFMLDS132 Advanced Deep Learning Models for Groundwater Contaminant Dynamics at the Savannah River Site <i>Jayesh Soni, Himanshu Upadhyay, Haruko Wainwright, Zexuan Xu and Leonel Lagos</i>
Parallel Session 4 Room No: KW-K.G.21(CLS) Zoom Link: Zoom Link 4 (https://uws.zoom.us/j/88460620546?pwd=fX9S3EijuPp1EKrvSah4ikx5fKvyE.1) Meeting ID: 884 6062 0546 Password: 624219 Session Chair: Dr Raghuram Bharadwaj , Indian Institute of Technology Bangalore, India
10:40am ZFMLDS109 Learning Hyper-Parameters of Image Transformations for Time Series Classification <i>Almiqdad Elzein and Mohammad Hassanzadeh</i>
10:55am ZFMLDS113 Early Detection and Severity Classification of Diabetic Retinopathy Through Image Processing and Deep Learning <i>Nelson Nishio, Jason Nishio and Alexander Nishio</i>
11:10am-ZFMLDS131 Magnification Independent Multi-Classification of Breast Cancer in Histopathology Images Using Deep Learning <i>Jason Nishio, Nelson Nishio and Alexander Nishio</i>
11:25am- ZFMLDS104 A Comparative Study of Deep Learning Models for Image Super-Resolution Across Various Magnification Levels <i>Jayesh Soni, Subhash Gurappa and Himanshu Upadhyay</i>
11:40am-ZFMLDS164 GAN-SLAM: Dynamic Visual SLAM Powered by GANs <i>Samira Taghavi, Abbas Razavi and Farshad Fotouhi</i>
11:55am- ZFMLDS140 Addressing Modality Mismatch in Real Estate Recommendation using Image Captioning <i>Srinivasan M, Siddharth Kothari, Kalyan Ram Munagala, Sankalp Kothari and Raghuram Bharadwaj Diddigi</i>
12:10pm ZFMLDS116 3D Object Detection Based on Spatially Adaptive Sparse Convolution <i>Jing Jing Hu, Yu Ling Fan, Ping Zhang, Chang Duan, Chao Zhang and Si Yu Chen</i>

Organised By:





12:30p m - 1:30pm	Lunch
1:30pm – 1:55pm	<p>Room: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/82758044797?pwd=VkeUEUgZeedl308bo2qrJtFbKhwgXc.1) Meeting ID: 827 5804 4797 Password: 890492</p> <p>Session Chair: Dr Syed Shams Islam, Edith Cowan University, Australia Keynote Speech: Professor Tanveer Zia, Notre Dame University, Australia Title: Balancing innovation responsibility</p>
1:55pm – 3:30pm	<p>Technical Session Parallel Session 1 Room: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/82758044797?pwd=VkeUEUgZeedl308bo2qrJtFbKhwgXc.1) Meeting ID: 827 5804 4797 Password: 890492</p> <p>1:55pm – FMLDS82 General algorithm of assigning raster features to vector maps at any resolution, size or scale <i>Nan Xu, Mark Stevenson and Kerry Nice</i></p> <p>2:10pm- FMLDS54 NTCP Modeling for The Soviet Union Luna Program With Innovative Modifications <i>Cyrus Nejat</i></p> <p>2:25pm FMLDS162 Comparative Analysis of Genetic Algorithm, Ant Colony Optimisation and Particle Swarm Optimisation on the Travelling Salesman Problem and the 0/1 Knapsack Problem <i>Imran Rahman, Luke Mathieson and Farhad Ahamed</i></p> <p>2:40pm FMLDS68 Retinal Arteries and Veins Semantic Segmentation Using Modified U-Net Architecture <i>Heidi Holiel, Aya El-Beheiry and Essam Rashed</i></p> <p>2:55pm ZFMLDS143 An Empirical Study on Enhancing Explainability through Quantum Machine Learning for Credit Risk Analysis <i>Aadrian Routh, Rubell Marion Lincy G and Parvathy Gopakumar</i></p> <p>3:10pm - ZFMLDS167 XAI based Cattle Identification with YOLO and SIFT Technique <i>Aashu Katharria, Millie Pant and Kusum Deep</i></p> <p>Parallel Session 2 Room No: KW-K.G.15(CLS) Zoom Link: Zoom Link 2 (https://uws.zoom.us/j/85462001485?pwd=Lcb57MGmq0pg6JMFPNuongkZ6pWUJ9.1)</p>

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Meeting ID: 854 6200 1485 Password: 004298
Session Chair: TBA
1:55pm -ZFMLDS56 GenAI Empowered Script to Storyboard Generator <i>Govind A, Rohith Syam, Aiswarya Anil Nair and Ahad Anzar</i>
2:10pm- ZFMLDS136 Comprehensive Analysis of Structural Defects in Various Structures Using TLS Data and Machine Learning <i>Surjo Dey, Ankit Sharma, Hritu Raj and Susham Biswas</i>
2:25pm ZFMLDS133 Multivariate Analysis of Urban Air Pollution: Clustering and Patterns Across Major Asian Cities <i>Anika Rahman and Mst. Taskia Khatun</i>
2:40pm ZFMLDS76 Detection of Black Holes from Stellar Datasets Using Machine Learning <i>Habibur Rahaman Fahim, Mahmudul Hasan and K.M.A. Salam</i>
2:55pm – ZFMLDS141 Personalised Diet Recommendation System using Bandits <i>Arjun Subhedar, Pranav Bhutada, Ansh Avi Khanna, Ritik Kumar Gupta and Raghuram Bharadwaj Diddigi</i>
3:10pm ZFMLDS91 Clustering Optimization via Centroid Neural Network Ensemble <i>Chung Tran, Le-Anh Tran, Ngoc-Phu Le, Jordi Carrabina, David Castells-Rufas, Minh Son Nguyen and Nhan Cach Dang</i>
Parallel Session 3 Room No: KW-K.G.20(CLS) Zoom Link: Zoom Link 3 (https://uws.zoom.us/j/82753524135?pwd=XqFJbsvhjslrNN1GiTCdHObnHE4vFC.1) Meeting ID: 827 5352 4135 Password: 530093
Session Chair: Professor Norshuhani Zamin , De La Salle University, Philippines
1:55pm – ZFMLDS60 Leveraging Sentiment Analysis and Emotion Detection for Mental Health insights <i>Joysh Jose</i>
2:10pm- ZFMLDS63 Facial Emotion Detection Using CNN: Comparative Analysis with VGG16 and InceptionV3 Models and Application in Emotion-Based Music Recommendation <i>Varesh Patel and Khyati Mehta</i>
2:25pm ZFMLDS99 Differential Diagnosis of Prostate Volume Images by Transfer Learning <i>Saba Ansari and Peter Riley</i>
2:40pm ZFMLDS61 Multi-Crop Multi-Disease Classifier Using Hybrid Model <i>Nagamani Thanuboddi and Usha Rani Nelakuditi</i>

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	<p>2:55pm ZFMLDS111 SentiMetry: A Development of Emotional Wellness Web Application Using AI-Driven Sentiment Analysis <i>Darius Vincent Ardales, Samantha Nicole Caasi, Jose Romulo Latosa, John Patrick Marcellana, Alroy Leon Reyes and Norshuhani Zamin</i></p> <p>3:10pm ZFMLDS114 Image Retrieval with Hard Negative Centers and Quadruplet Center Loss in Deep Hashing <i>Nikolaos Konstantinou, Theodoros Semertzidis, Anastasios Dimou and Petros Daras</i></p> <p>Parallel Session 4 Room No: KW-K.G.21(CLS) Zoom Link: Zoom Link 4 (https://uws.zoom.us/j/88460620546?pwd=fx9S3EijuPp1EKrvSah4ikx5fKvyE.1) Meeting ID: 884 6062 0546 Password: 624219</p> <p>Session Chair: Dr Rezaul Bashar, GCSTMR, Australia</p> <p>1:55pm – ZFMLDS66 Enhancing Sign Language Interpretation with Multi-headed CNN, Hand Landmarks and Large Language Model (LLM) <i>Chaitanya Kakade, Nidhi Kadam, Vishal Kaira and Rishi Kewalya</i></p> <p>2:10pm- ZFMLDS89 An Evaluation of Standard Statistical Models and LLMs on Time Series Forecasting <i>Rui Cao and Qiao Wang</i></p> <p>2:25pm ZFMLDS149 Defect Classification and Localization in Material Extrusion with Multi-Modal Large Language Models <i>George Wu, Chi-Tsun Cheng and Toh Yen Pang</i></p> <p>2:40pm ZFMLDS159 Distillation-based Model Compression Framework for Swin Transformer <i>Mazen Amria, Aziz M. Qaroush, Mohammad Jubran, Alaa Zuhd and Ahmad Khatib</i></p> <p>2:55pm ZFMLDS165 Deep Reinforcement Learning for Automated Stock Trading using Different Reward Schemes <i>Sahil Ramkaran Lawton and Asad Jeewa</i></p> <p>3:30pm ZFMLDS53-TTPMapper: Accurate Mapping of TTPs from Unstructured CTI reports <i>Asad Ali and Min-Chun Peng</i></p>
3:30pm – 4:00pm	<p>Conference Closing and FMLDS 2025 Announcing Room: KW-K.1.04(Lecture Theatre) Zoom Link: Zoom Link 1 (https://uws.zoom.us/j/82758044797?pwd=VKEUEUgZeedl308bo2qrJtFbKhWgXc.1) Meeting ID: 827 5804 4797 Password: 890492</p>
Time	Day 04 – Saturday, 23 Nov 2024
9:30pm – 7:30pm	Sightseeing and self-guided tour.

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