



Program

International Conference on Maintenance and Intelligent Asset Management ICMIAM 2025

**Federation University
Berwick campus, Victoria, Australia**

**Lecture Theatre G43 (Building 901), Room no. 197 and 195 (Building 902)
100 Clyde Road, Berwick, Vic 3806**

**10 - 12 December 2025
Melbourne, Australia (Australian Eastern Standard Time)**

Organised by

Centre for Smart Analytics and Institute of Innovation, Science and Sustainability, Federation University Australia and International Collaboration on Maintenance and Intelligent Asset Management.

Supported by

Asset Management Council Australia, Asset Management Society India, The University of Huddersfield, UK, Luleå University of Technology, Sweden and The University of Johannesburg, South Africa.

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ICMIAM2025

10–12 December 2025

International Conference on Maintenance and Intelligent Asset Management (ICMIAM2025)

ICMIAM2025 will provide a platform for industry-leading speakers, academic experts, and professional body leaders to share their knowledge and expertise on a diverse range of topics. Details are available at icmiam.com.

Our speaking panel will consist of respected, senior representatives from within the 'asset management and maintenance' industries, government entities, universities, TAFE, and professional bodies. There will be fantastic networking opportunities.

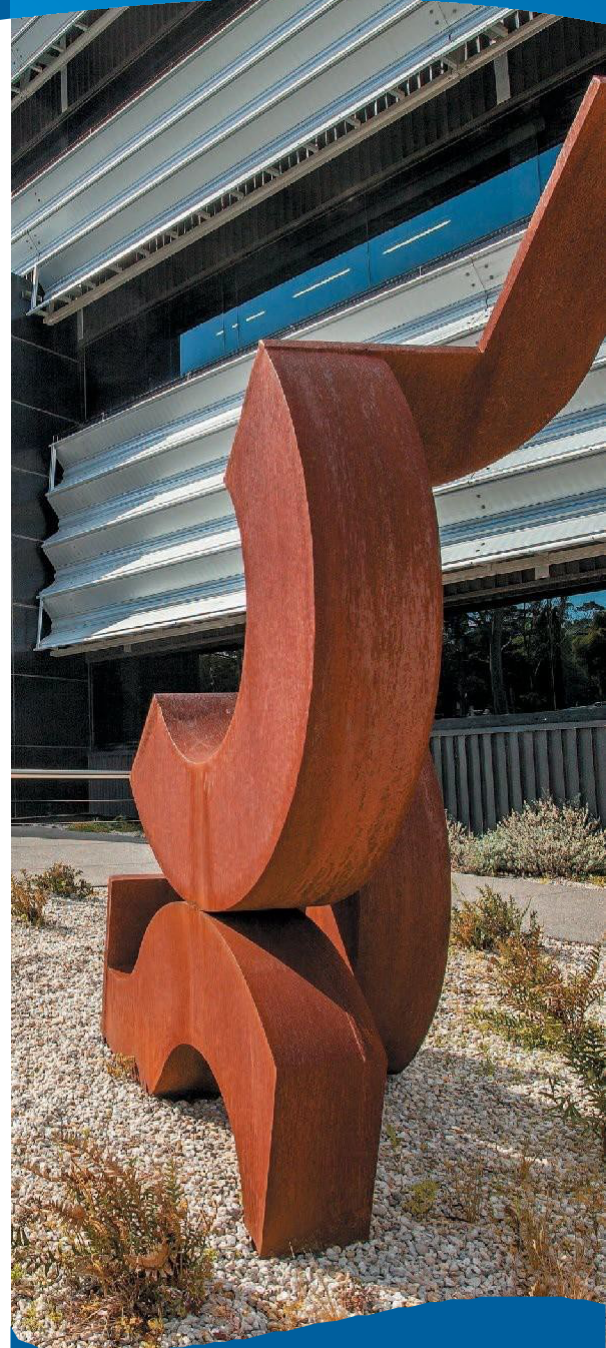
Speakers will address topics such as standards, risk management as the basis of an asset management plan, whole-life-approach investment decisions, failure modes, existing and emerging technologies, and extending an asset's lifecycle.

The conference will highlight the practices and research outcomes to improve asset management through systems, standards, and technologies or balancing costs, risk and performance, and will feature workshops on data analytics for asset management and Reliability, Availability, and Maintainability (RAM) Analysis.

The purpose of ICMIAM2025

Advancements through research and innovations in the spheres of Maintenance and Reliability Engineering and Asset Management which will contribute to the sustained industrial and economic growth of our countries by reducing costs and risks and enhancing performance of plants and infrastructure, natural and human assets for making the world a better place to live. This includes:

- Making people aware of the possibilities in Maintenance, Reliability and Asset Management.
- Showcasing best practice and achievements in this field along with high quality applications in industry.
- Fostering networking across disciplines.
- Identifying future needs for professional development and opportunities



Fed



Themes

Track 1 **Asset Management (AM) and Systems (AMS)**

Asset management (AM), ISO55000 and related standards, ISO 55001 certification and beyond, Critical assets, e.g., water, power, smart grids, Energy management, Energy asset management, Intelligent traffic system, Self-driving cars, Water asset management, Water audit and analysis, Rural asset management, Regulations and compliance, Environment, Internet of Things (IoT), Industry 4.0 in AM, Analytics and applications in AM, Risk management, Cyber-Physical Systems, Process modelling, Digital twins, Uncertainty in simulations, Energy systems simulations, Data assimilation, Machine learning in asset management, Asset Management for Oil and Gas industry, Built environment asset management, Smart systems' management, Low cost sensing for asset management, Indoor air quality management, Biological smartness in infrastructure systems.

Track 2 **Reliability, Availability and Maintainability (RAM) and Maintenance Management (MM)**

New advancements in reliability, Maintenance engineering, Preventive and predictive maintenance, Lifecycle cost analysis, Remaining useful Life analysis, Tribology, Artificial Intelligence (AI) and IoT in RAM, Condition Monitoring (CM) and fault diagnostics, Condition Based Maintenance (CBM) and Efficiency, RAM in Industry 4.0, Resilience, Software reliability, Rail track maintenance, Rolling stock maintenance, Rural Asset Management, Reliability and resilience, Risk and performance assessment, Risk based maintenance.

Track 3 **Safety Engineering and Analytics (SEA), Security, Risk Management and Human Factors (SRM-HF)**

Safety analytics, Occupational health, Integrated safety management systems, Prevention through design (PTD), Probabilistic risk assessment & uncertainty analysis, Human factors & cognitive ergonomics, Human error & behaviour, Building & infrastructure safety, Process safety, Workplace safety, Safety Economics, Application of Virtual Reality, IoT, AI, ML and other Industry 4.0 technologies in safety, Digital asset management, Asset integrity, Cyber security challenges and risk management, Cyber-vulnerabilities, Cyber-security of CPS, Industrial IoT & data analytics framework and maturity models for cyber risk management, AI and ML applications in cyber safety & security, Smart transportation and logistics, Rural Asset Management, Cyber supply chain risk management (CSRM).

Wednesday 10th and Thursday 11th December 2025 8:30 am to 5:30pm Workshops Friday 9th December 4pm to 6pm on Data Analytics for Asset Management and 12th December 8:30am to 11:30am on Reliability, Availability, and Maintainability (RAM) Analysis.

Technical Tour: Friday 12th December 2025

ICMIAM Panel Discussion: Future Direction in Asset Management

Virtual

Online platforms and links will be provided to registered delegates for online sessions.

INTERNATIONAL CONFERENCE ON MAINTENANCE AND INTELLIGENT ASSET MANAGEMENT (ICMIAM2025) | WWW.ICMIAM.COM

Distinguished speakers



Professor Syed Islam

Associate Deputy Vice-Chancellor (International Research Partnerships) and Adviser to the Vice-Chancellor, New Energy.

Federation University, Australia.

“Transformer Asset Management” Industry Panel



Dr Anne Gibbs, CEO, Asset Management Council

“Asset Management for Resilience.”



A/Prof. Gopinath Chattopadhyay

Post Graduate Program Coordinator Maintenance and Reliability Engineering Programs. Federation University, Australia.

“Issues and challenges in Asset Management.”



Professor Iven Mareels

Pro Vice-Chancellor Innovation and the Executive Dean of the Institute for Innovation, Science and Sustainability. Federation University Australia.

“Asset Management in water sector.”



Dr. Shantanu Kumar

Lead Electrical Engineer

“Transformer Asset Management.” Industry Panel



Charles McInnes

Lecturer and Consultant in the mining, oil, gas, sheet metal, power, defense, maritime, water, civil and construction industries.

VCAT III certified.

“Fundamentals of Spectral Analysis.”



Glenn ‘Shoey’ Schumacher

Engineering Advisor to Delta Electricity and Energy (Delta), Sydney, Australia. Process Safety a key element of Asset Management”.



Prof. Uday Kumar

Division of Operation and Maintenance Engineering.

Luleå University of Technology, SWEDEN.

“Next-Generation Asset Maintenance: Integrating Lean Thinking , Digital Transformation and Sustainability.”



Prof. Ramin Karim

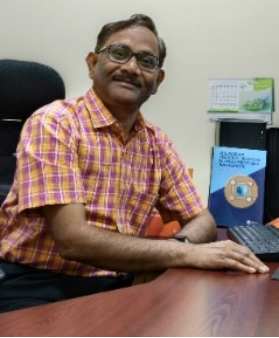
Chair and Professor of Operations and Maintenance Engineering with specialization in Industrial AI and Asset Management,

Luleå University of Technology (LTU), Sweden.

“AI-driven digital transformation in Asset management through innovative tools and technologies.”



Tom Carpenter,
CEO and Director, IQ-AM Pty Ltd
“Future Direction of Asset Management”, Industry Panel



Prof Jhareswar Maiti,
Indian Institute of Technology Kharagpur
“The Safety Bullwhip Effect: Why Small Gaps Create Big Risks” and workshop
“Data Analytics for Asset Management”



Hongan Lin
Executive Director · AssetStudio, Singapore
“Reliability-Based Inventory Optimization for Crude Oil Transfer Pumps” and workshop
“Steps for Reliability, Availability, and Maintainability (RAM) Analysis using a Combined-Cycle Power Plant Example.”



Shane Scriven
Advanced Analytics and Asset Management | Accessible, Understandable, and Usable
AI for Everyone
“Future Direction of Asset Management”, Industry Panel



Indy Sehra
Founder & Principal, City of Assets
“Future Direction of Asset Management”, Industry Panel



Mr. Martin Kerr,
World Partner in Asset Management and Structured Change
“Asset Management Supporting Maintenance and Reliability”



Raghuvir Pai
Professor (Retd.), Department of Mechanical and Industrial Engineering,
Manipal Institute of Technology Manipal 576104, INDIA.
“Tribology and Artificial Intelligence: Current and Future Prospects.”



Professor Joarder Kamruzzaman
Director, Centre for Smart Analytics,
Federation University, Australia
“Engineering Asset Management in the Era of AI”



Professor Rakesh Mishra
Energy, Emissions and the Environment Research Group Leader,
University of Huddersfield, U.K.
“Digital Twin in Asset Management”.



Dr. Kin Yu LAM

Dr. Kin Yu LAM

Application Engineering Leader

Cargill Asia Pacific Holdings Pte Ltd, Singapore

“Lifecycle Cost Benefit Analysis of Natural Ester Transformers Based on Extended Lifespan of Paper Insulation.”



Aaron Teo,

Managing Director, AVID Group

“The Future needs of asset management of Manufacturing Leadership in Australia.”



Dr. Barun Gorain,

Managing Director: Ore2Metal Inc., Toronto, Canada,

“Transforming Mining Waste into Strategic Assets for Production of Critical Metals.”



Rev. Swami Sunishthananda

Resident monk in-charge of Vedanta Centre of Melbourne.

“Human aspects of Asset Management.”



Professor Tapan Kumar Saha

Professor of Electrical Engineering, The University of Queensland

“Transformer Asset Management” Industry Panel



Professor Ahmed Abu-Siada

Professor and Head of Electrical Engineering, Curtin University



Dr. Narottam Das

Senior Lecturer, Central Queensland University

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Sponsor Opportunity

If you are interested in exhibiting, registration, or sponsorship, please contact us.

Email ICMIAM2025@gmail.com or

Phone +61402467737

Tuesday 9th December: Registrations from 2 to 4pm

[Join the meeting now](#)

Workshop 1#: Location 2: Berwick Campus, Room 197, Bldg. 902, Federation University	
4:00pm – 4:05pm	Introductions by the Session Chairs- Prof. Gopinath Chattopadhyay and Mr. Martin Kerr; Coordinator- Mr. Venkata Sudula
4:05pm- 6:00pm	Workshop 1#: Professor Jhareswar Maiti: Data Analytics for Asset Management

Day 1, Wednesday, 10th December

Inauguration and Welcome session

Location1: Lecture Theatre, Room G43, Building 901, Berwick Campus
(Registration from 8:30am, Session 9:00am – 10:30am)

[Join the meeting now](#)

<i>Master of the Ceremony and about the conference</i> Prof. Gopi Chattopadhyay, General Chair of ICMIAM2025 conference (5 mins)
<i>Acknowledgement of the Country</i> Mr. Nik Sharpe, Federation University (5 mins)
<i>Ceremony: Lighting lamps and performance</i> Communities (10 mins)
<i>Inauguration and Welcome speech</i> Prof. Iven Mareels, Pro Vice Chancellor Research and Innovation and Executive Dean, Institute of Innovation, Science and Sustainability (IISS), Federation University Australia (5 mins) Rev. Swami Sunisthananda, Vedanta Centre of Melbourne (5 mins) Cr Stefan Koomen, Mayor, City of Casey (5 mins) Cr Jack Kowarzik, Mayor, Cardinia Shire Council (5 mins)
<i>Opening words</i> Dr. Anne Gibbs, CEO Asset Management Council Australia (5 mins) Prof. Syed Islam, Associate Deputy Vice-Chancellor (International Research Partnerships) and Adviser to the Vice-Chancellor, New Energy, Federation University Australia (5 mins)
<i>Address by Consul General of India, Melbourne</i> (5 mins) Dr. Sushil Kumar
<i>Message from the Research Centre</i> Prof. Joarder Kamruzzaman, Centre for Smart Analytics (CSA), Federation University Australia (5 mins)
<i>Thanks, and Introduction of Keynote Speaker</i> Prof. Raghuvir Pai (5 mins)
Keynote/ Invited Talk 1: Dr. Glenn Schumacher (25 mins)

**MORNING TEA (in the foyer of Building
901) 10:30am to 11:00am**

Day 1, Wednesday 10th December
Keynote session 1 (11:00am – 1:00pm)

[Join the meeting now](#)

Keynote session 1: Session Chairs- Prof. Syed Islam and Prof. Rakesh Mishra; Coordinator- Mrs. Jo-ann Larkins Location 1: Lecture theatre, Room G43, Bldg. 901, Berwick Campus
11:00am-11:05am: Introductions by the Session Chair
11:05am-11:30am: Keynote/ Invited Talk 2: A/Prof. Gopi Chattopadhyay
11:30am-11:55am: Keynote/ Invited Talk 3: Dr. Anne Gibbs
11:55am-12:20pm: Keynote/ Invited Talk 4: Prof. Jhareswar Maiti
12:20pm-12:45pm: Keynote/ Invited Talk 5: Prof. Joarder Kamruzzaman
12:45pm-1:00pm: Question and Answer

LUNCH (in Foyer Building 901): 1:00pm to 1:45pm

Day 1, Wednesday, 10th December

Technical Sessions (1:45pm – 3:30pm)

Technical Session 1A: Session Chairs- Prof. Jhareswar Maiti, and A/Prof. Gayan Kahandawa Appuhamillage; Coordinator- Mr. Venkata Sudula. Parallel Track (15 mins presentation and 5 mins Q/A) Location 2: Lecture theatre, room 197, Bldg. 902, Berwick Campus, Federation University Join the meeting now	
1:45pm – 1:50pm	Introductions by the Session Chairs
1:50pm – 2:10pm	Presentation 1#: Paper 17: Risk-Informed Life Extension Decisions Using Unstructured Maintenance Data <i>Venkata Sai Prashanth Sudula, Gopinath Chattopadhyay and Jo-Ann Larkins</i>
2:10pm – 2:30pm	Presentation 2#: Paper 2: Lifecycle Cost Benefit Analysis of Natural Ester Transformers Based on Extended Lifespan of Paper Insulation <i>Kin Yu Lam, Philip Reilly and Janet Tan</i>
2:30pm – 2:50pm	Presentation 3#: Paper 4: A Bayesian Decision-Making Framework for Life Extension of Long-Life Complex Assets under Data Scarcity <i>Ravi Welandage Don, Gopinath Chattopadhyay and Joarder Kamruzzaman</i>
2:50pm – 3:10pm	Presentation 4#: Paper 8: A Comparative Analysis of Key Performance Indicators for monitoring and preventive interventions in the Rail Sector. <i>Dennis Noble, Gopinath Chattopadhyay and Truong Phung</i>
3:10pm – 3:30pm	Presentation 5#: Paper 23: Risk-Based Overall Equipment Effectiveness to Total Productive Maintenance: Translating Measurement into Action in Meat Manufacturing <i>Vickram Chundhoo, Gopinath Chattopadhyay and Gour Karmakar</i>
Technical Session 1B: Session Chairs- Dr. Shantanu Kumar and Dr. Truong Phung ; Coordinator- Mrs. Jo-ann Larkins Parallel Track (15mins presentation and 5 mins Q/A) Location 3: Berwick Campus, room 195, Bldg. 902, Federation University Join the meeting now	
1:45pm – 1:50pm	Introductions by the Session Chairs
1:50pm – 2:10pm	Presentation 6#: Paper 29: Fire Risk Mitigation and Reliability Improvement on Conveyor Belts in Mining. <i>Vipu Mathew, Gopinath Chattopadhyay and Rajkumar Das</i>
2:10pm – 2:30pm	Presentation 7#: Paper 30: Fault Tree Analysis of Rollingstock Stopping AID System Train Software for reducing operational safety. <i>Haocheng Shi, Gopinath Chattopadhyay and Rajkumar Das</i>
2:30pm – 2:50pm	Presentation 8#: Paper 34: Failure Mode and Effect Analysis of Power System Monitoring for Control Systems of Alumina Production Plant <i>Amr Hegab, Gopinath Chattopadhyay and Abdullahi Chowdhury</i>
2:50pm – 3:10pm	Presentation 9#: Paper 35: Risk-based Decision Making in Maintenance Intervals of Light Rails in Australia. <i>Muhammad Hussain, Gopinath Chattopadhyay and Abdul Chowdhury</i>
3:10pm – 3:30pm	Presentation 10#: Paper 45: Reliability-Based Inventory Optimization for Crude Oil Transfer Pumps. <i>Hongan Lin</i>

Technical Session 1C: Session Chairs- Dr. Abdul Chowdhury and Mr. Nik Sharpe ; Coordinator- Mr. Ravi Welandage Don. Parallel Track (15mins presentation and 5 mins Q/A) Location Online: ICMIAM2025 and Research and Industry Day (RAID) (Foyer of 901): Berwick Campus, Federation University Australia. Join the meeting now	
1:45pm – 1:50pm	Introductions by the Session Chairs
1:50pm – 2:10pm	Presentation 11#: Paper 27: Analysis of Condition data and Process Implementation and its impact on asset management decisions <i>Venkatarami P Reddy and Sinda Rebello</i>
2:10pm – 2:30pm	Presentation 12#: Paper 38: Reliability-Based Maintenance Decisions of a Polyol Gear Pump in Foam Manufacturing. <i>Andrew Musonza, Gopinath Chattopadhyay and Venkat Reddy</i>
2:30pm – 2:50pm	Presentation 13#: Paper 46: Fundamentals of Spectral Analysis in Condition Monitoring. <i>Charles McInnes</i>
2:50pm – 3:10pm	Presentation 14#: Paper 13: Review of Differential Protection as Applicable to Conventional and Digital Method Based on IEC 61850 <i>Busra Tasnim, Ali Ahsan, Dewan Md Sadman Hossain, Shantanu Kumar and Asma Aziz</i>
3:10pm – 3:30pm	Presentation 15#: Paper 43: Asset Management System framework aligned with ISO55001 developed for a Multi Campus University in Australia. <i>Amar Singh</i>

AFTERNOON TEA (in Foyer Building 901): 3:30pm to 4:00pm

Day 1, Wednesday, 10th December

Technical Session 2 (4:00pm – 5:30pm)

Technical Session 2A: Session Chairs- Prof. Joarder Kamruzzaman and Dr. Narottam Das ; Coordinator- Mr. Venkata Sudula. Parallel Track (15mins presentation and 5 mins Q/A) Location 2: Lecture theatre, room 197, Bldg. 902, Berwick Campus, Federation University Join the meeting now	
4:00pm – 4:05pm	Introductions by the Session Chairs
4:05 pm – 4:25pm	Presentation 16#: Paper 37: Multi-Head Attention Informer for Predictive Maintenance of Rare Failures in Industry 5.0 <i>Sakib Shahriar Shafin, Rabeya Basri, Jannatul Ferdush, Gour Karmakar, Iven Mareels and S. H. Shah Newaz</i>
4:25 pm – 4:45pm	Presentation 17#: Paper 6: Automating HAZOP Reports using Clustering-Enhanced Fine-Tuned GPT-2 (CEHRA) <i>Gourab Kumar Bagchi and Jhareswar Maiti</i>
4:45 pm – 5:05pm	Presentation 18#: Paper 44: Building Human Assets: Imperative for Human Capital Management and the mitigation of Childhood Adversity risks. <i>Soumya Basu and Subhas Das</i>
5:05 pm – 5:25pm	Presentation 19#: Paper16: Health as an Asset: Extending Intelligent Asset Management Principles to Smart Homes <i>Catherine Hill, Jasmine Tolson, Rakesh Mishra and Leigh Fleming</i>
5:25 pm – 5:30pm	Wrap up of the day and any updates

Technical Session 2B: Session Chairs- Prof. Raghuvir Pai and Mr. Aaron Teo ; Coordinator- Hasitha Hewawasam. Parallel Track (15mins presentation and 5 mins Q/A) Location 3: Berwick Campus, room 195, Bldg. 902, Federation University Join the meeting now	
4:00pm – 4:05pm	Introductions by the Session Chairs
4:05 pm – 4:25pm	Presentation 20#: Paper 5: Generalisation of Artificial Neural Networks Surrogates for Engine Emission Management <i>Muhammad Usman Saeed Akhtar, Rakesh Mishra, Sulaiman O. Fadlallah, M. Imran Khan and Faisal Asfand</i>
4:25 pm – 4:45pm	Presentation 21#: Paper 10: Predictive Asset Management of Gas Cyclone Separators Using an AI-Driven Framework <i>Hossein Fatahian, Rakesh Mishra and Esmaeel Fatahian</i>
4:45 pm – 5:05pm	Presentation 22#: Paper 24: Guided Wave based Structural Integrity Assessment of Pipelines used in Hydrogen Transport <i>Mohammad Hamza, Shirsendu Sikdar, Farbod Dadashbaki, Deba Datta Mandal, Rakesh Mishra, Ahmed Hussain Ali Abdelrahman, Mosbeh R Kaloop and Mohamed M. Awad</i>
5:05 pm – 5:25pm	Presentation 23#: Paper 32: The Future of Asset Management: Buildings, Factories & Organisations (Africa & Middle East) <i>Nishaan Kishore, Lonwabo Ntoni, Naledi Pearann Moncho and Gopinath Chattopadhyay</i>
5:25 pm – 5:30pm	Wrap up of the day and any updates

Technical Session 2C: Session Chairs- Dr. Abdul Chowdhury and Dr. Venkatrami Reddy ; Coordinator- Sakib Shahriar Shafin. Parallel Track (15mins presentation and 5 mins Q/A) Location Online: ICMIAM2025 and Research and Industry Day (RAID) (Foyer of 901): Berwick Campus, Federation University Australia. Join the meeting now	
4:00pm – 4:05pm	Introductions by the Session Chairs
4:05 pm – 4:25pm	Presentation 24#: Paper22- Bridging Data and Physics: A Novel SINDy-Driven Framework for Modelling Hydrogen-Diesel Dual-Fuel Combustion <i>Muhammad Usman Saeed Akhtar, Oussama Graja, Rakesh Mishra, Muhammad Imran Khan and Faisal Asfand</i>
4:25 pm – 4:45pm	Presentation25#: Paper31- Development of Machine Learning based Inverse Design for 2D Aerofoil <i>Muhammad Faraz Mahmood, Rakesh Mishra, Naeem. S. Mian and Hossein Fatahian</i>
4:45 pm – 5:05pm	Presentation26#: Paper7- Post-Processed Hybrid Deep Learning Framework for Remaining Useful Life Estimation on NASA C-MAPSS FD001 <i>Saptarshi Das, Sayak Roychowdhury and Jhareswar Maiti</i>
5:05 pm – 5:25pm	Presentation27#: Paper9- Physics Informed Neural Network for Fatigue Modelling and Prediction <i>Swarna Kamal Pradhan and Jhareswar Maiti</i>
5:25 pm – 5:30pm	Wrap up of the day and any updates

CONFERENCE DINNER (in Foyer Building 901) 7:00 pm to 9:30pm

Day 2, Thursday, 11th December
Keynote Session 2 (Registration
from 8:30am,
Session: 9:00am – 10:30am)
[Join the meeting now](#)

Keynote session 2 Session Chairs- Dr. Glenn (Shoey) Schumacher and Mr. Tom Carpenter ; Mr. Venkata Sudula. Location 2: Lecture theatre, 197, Bldg. 902, Berwick Campus, Federation University	
9:00am-9:05am:	Introductions by the Session Chair
9:05am-9:30am:	Keynote/ Invited Talk 6: Prof. Raghuvir Pai
9:30am-9:55am:	Keynote/ Invited Talk 7: Mr. Martin Kerr
9:55am-10:20am:	Keynote/ Invited Talk 8: Mr. Aaron Teo
10:20am-10:30am:	Question and Answers

MORNING TEA (in Foyer Building 901): 10:30am to 11:00am

Day 2, Thursday, 11th December

Technical Session 3 (11:00am - 12:45pm)

Technical Session 3A: Session Chairs- A/Prof. Gayan Kahandawa Appuhamillage and Dr. Shantanu Kumar ; Coordinator- Mr. Venkata Sudula. Parallel Track (15mins presentation and 5 mins Q/A) Location 2: Lecture theatre, room 197, Bldg. 902, Berwick Campus, Federation University Join the meeting now	
11:00am – 11:05am	Introductions by the Session Chairs
11:05am – 11:25am	Presentation 28#: Paper 20: Motor Current-based Vibration Pattern Recognition in Electric Systems using Deep Learning <i>Nuwan Talawitige, Gayan Kahandawa, Hasitha Hewawasam, Linh Nguyen, Ddb Senanayake and Joarder Kamruzzaman</i>
11:25am – 11:45am	Presentation 29#: Paper 36: Predicting Maintenance Actions through Retraining of Pre-trained Large Language Models. <i>Gour Karmakar, Jannatul Ferdush, Venkata Sai Prashanth Sudula, Sakib Shahriar Shafin, Rabeya Basri, Iven Mareels, Gopi Chattopadhyay and Rajkumar Das</i>
11:45am – 12:05pm	Presentation 30#: Paper 12: Enhancing Operational Safety of Legacy Assets Leveraging on Artificial Intelligence <i>Dhrubojit Saha, Shantanu Kumar and Ali Ahsan</i>
12:05pm – 12:25pm	Presentation 31#: Paper 19: Digital Drops: IoT-Driven Smart Water Asset Intelligence <i>Shantanu Kumar and Mustaque Pilot</i>
12:25pm – 12:45pm	Presentation 32#: Paper 33: Intelligent Asset Management of Landfills Using UAV-Based 3D Terrain Modeling and AI-Driven Geospatial Analysis <i>Rizan Mohamed, Gayan Kahandawa Appuhamillage and Chandana Vidanaarachchi</i>

Technical Session 3B: Session Chairs- Prof. Gopi Chattopadhyay and Dr. Narottam Das; Coordinator- Duranga Senanayakege Parallel Track (15mins presentation and 5 mins Q/A) Location 3: Berwick Campus, room 195, Bldg. 902, Federation University Join the meeting now	
11:00am – 11:05am	Introductions by the Session Chairs
11:05am – 11:25am	Presentation 33#: Paper 41: The Asset-Attack Surface: A Survey of Cyber-Physical Vulnerabilities and Mitigation Frameworks for Industry 4.0-Enabled Intelligent Asset Management <i>Abdullahi Chowdhury, Gopi Chattopadhyay, Siamak Mirzaei, Behnam Khaye</i>
11:25am – 11:45am	Presentation 34#: Paper42: Optimizing the Operation of Energy Storage Systems for Cost Effective Integration of Solar Power into National Grid <i>Dilshan Maduranga Yakupitige, Narottam Das, Mohammad Nur-E-Alam, Adbul Md Mazid and Md. Rabiul Islam</i>
11:45am – 12:05pm	Presentation 35#: Paper 15: Uncovering Latent Failure Signatures : A Graph-feature based analysis of Critical Component Interactions in Technical Event Logs <i>Madhu Krishna Menon and Rabin Tuladhar</i>
12:05pm – 12:25pm	Presentation 36#: Paper 47: Transforming Mining Waste into Strategic Assets for Production of Critical Metals <i>Barun Gorain</i>

12:25pm – 12:50pm: Keynote/ Invited Talk 9:

Ms Gayathri Wickramasinghe and Mr. Yadwinder Singh Hunjan: Asset Management is a journey: A case study from City of Casey.

Mr. Tom Carpenter: What does it take to achieve true efficiency and effectiveness in asset-management capability?

Technical Session 3C: Session Chairs- Dr. Abdul Chowdhury and Dr. Anisur Rahman; Coordinator- Duranga Senanayakege Parallel Track room 3 (15mins presentation and 5 mins Q/A) Location Online (Display in The Foyer of 901): Berwick Campus, Federation University Australia. Join the meeting now	
11:00am – 11:20am	Presentation37#: Paper 14: Leveraging Transformers for Workplace Safety: Insights from OSHA Accident Data <i>Anwesa Mondal and Souvik Das</i>
11:20am – 11:40am	Presentation38#: Paper 18: IEC 61850-Based Digital Protection for a Weak Grid at a Mine Site: A Review <i>Menglin Xu, Shantanu Kumar and Asma Aziz</i>
11:40am – 12:00pm	Presentation39#: Paper 1: Off-Grid Solar System Performance for Critical Medical Instruments in Isolated Regions. <i>Anisur Rahman and Saba Shadvar</i>
12:00pm – 12:20pm	Presentation40#: Paper 26: Simulation-Based Lean Production Control in Steel Manufacturing: Evidence from Tyre Bead Wire <i>Anisur Rahman, Hrishikesh Srinivasa Rao and Saba Shadvar</i>
12:20pm – 12:35pm	Presentation41#: Paper 39: A Modified Total Cost of Ownership Framework for Fatigue Testing Equipment in Academic Laboratories <i>Adewale Oyeku and Gopinath Chattopadhyay</i>
12:35pm – 12:50pm	Presentation42#: Paper 49: Reliability-Centred Digital Modernisation Framework for CNC and Metal-Forming Assets: A Case from an Australian Manufacturing SME. <i>Srinivas Poliseti, Venkata Sai Prashanth Sudula, Gopinath Chattopadhyay</i>

LUNCH (in Foyer Building 901): 12:45 pm to 1:30pm

Day 2, Thursday, 11th December
Industry panel (1:30pm – 3:30pm)

[Join the meeting now](#)

Location 2 : Lecture theatre, 197, Bldg. 902, Berwick Campus, Federation University	
1:30pm – 1:35pm	Introductions by the Session Chairs- Mr. Martin Kerr and Dr. Glenn Schumacher; Coordinator- Prof. Jhareswar Maiti
1:35 pm – 2:30pm	Panel 1# on Future Direction of Asset Management Dr. Glenn Schoemacher (Shoey) Mr. Tom Carpenter Mr. Shane Scriven Mr. Indy Shera Mr. Aaron Teo

Location 2 : Lecture theatre, 197, Bldg. 902, Berwick Campus, Federation University Panel 2#	
Session Chairs: Prof. Syed Islam and Dr. Shantanu Kumar; Coordinator- Mrs Jo-ann Larkins	
2:30pm- 3:30pm	Introductions by the Session Chairs Professor Syed Islam and Dr. Shantanu Kumar Panel 2# on Transformer Asset Management.
	Panel Members Professor Syed Islam, Federation University Professor Tapan Saha, The University of Queensland Professor Ahmed Abu-Siada, Curtin University Dr Shantanu Kumar, Lecturer, Curtin University Dr. Narottam Das, Central Queensland University Practitioners from Industries
	Closing comments by Chair

AFTERNOON TEA (in Foyer Building 901): 3:30 pm to 3:50 pm

Day 2, Thursday, 11th December Keynote speaker Session 3 (3:50pm – 5:25pm)

[Join the meeting now](#)

Keynote Sessions 3A Location 2: Lecture theatre, room 197, Bldg. 902, Berwick Campus, Federation University	
3:50pm – 3:55 pm	Introductions by the Session Chairs
3:55 pm – 4:20 pm	Keynote/ Invited Talk 10: Professor Rakesh Mishra
4:20 pm – 4:45 pm	Keynote/ Invited Talk 11: Prof. Uday Kumar and Prof. Ramin Karim
4:45 pm – 5:10 pm	Keynote/ Invited Talk 12: Professor Iven Mareels
5:10 pm – 5:25 pm	Question and Answer

Day 2, Thursday, 11th December Closing Session and Networking (5:30pm – 6:30pm)

In the foyer of bldg. 901

<i>Master of Ceremony: A/Prof. Gopi Chattopadhyay, General Chair of ICMIAM2025 conference (5mins)</i>
<i>Address by Guest of Honour: Dr. Glenn Schumacher (10 mins)</i>
<i>Thanks, from Technical Program Committee Prof. Joarder Kamruzzaman, Technical Program Committee of ICMIAM2025 (5mins)</i>
<i>Thanks, from Fed Uni Prof. Iven Mareels, Chair ICMIAM2025(5 mins)</i>
<i>Announcement about ICMIAM 2026 (5 mins)</i>
<i>Closing: A/Prof. Gopi Chattopadhyay, General Chair of ICMIAM2025 conference (5 mins) Networking and Poster session</i>

Networking (in Foyer Building 901) from 5:30pm

Day 3, Friday, 12th December
Industry Panel Session Registration
from 8:30am Session: 9:00am –
12:00pm

[Join the meeting now](#)

Workshop 2#: Location2: Room 197, bldg. 902, Berwick Campus, Federation University	
9:00am – 9:05 am	Introductions by the Session Chairs Prof. Iven Mareels and Prof. Joarder Kamruzzaman; Coordinator Mr. Venkata Sudula
9:05am - 11:00am	Workshop 2#: Mr. Hongan Lin: Reliability, Availability, and Maintainability (RAM) Analysis.
11:15am - 12:00pm	Closing Ceremony Talks

TECHNICAL TOUR (from foyer of 901)

12:30pm to 10:30pm

