



International Conference on Maintenance and Intelligent Asset Management

ICMIAM-2024



December 16-17, 2024

Venue:

Manipal Institute of Technology, Manipal

Organised by:

Department of Mechanical and Industrial Engineering

Manipal Institute of Technology

Manipal Academy of Higher Education (MAHE), Manipal 576 104, Karnataka, India

in association with

Federation University, Australia and Asset Management Council, Australia

OVERVIEW OF THE CONFERENCE

ICMIAM – 2024 is built upon a long-established history of academia, professional association peak bodies and industry collaborating to provide asset management and maintenance conferences and technical events in Australia and India. Since 2009 the Gladstone Campus of Central Queensland University has been involved in delivering asset management and maintenance events. In 2014 both Central Queensland University and the Asset Management Council were involved in COMADEM2014 in Brisbane. Maintenance, Reliability and Asset Management events have been held regularly at the Churchill Campus of Federation University in conjunction with the Asset Management Council since 2016. Due to the demand for access to knowledge in asset management and its link with systems, standards and technology and the desire to extend the collective efforts of Universities, Peak Bodies and Industries to others in the wider Asia- Pacific region, the event in 2020 was held for the first time outside of Australia. This Conference has the strong support of industries, universities, professional bodies and wider communities.

Industrial and municipal assets have a number of systems and subsystems, hardware, sensors and software including rotating and sliding parts. It is well known that failure mechanism and degradation behaviour of these parts and subsystems influences life of those systems.

In order that informed decisions are taken by maintenance, reliability and asset management professionals to improve performance and productivity, it is imperative that the behaviour of machine components and sub systems with regard to the performance of the system, costs and risks associated with various options in maintenance and replacement decisions are better understood. But there are issues and challenges in understanding these by maintenance, reliability and asset management professionals and researchers. The tools and techniques necessary for better maintenance can be developed and applied with an enhanced understanding of reliability, availability, maintainability, safety, security and tribology.

In recent years, the concept of Industry 4.0/5.0 which deals with Remote Performance Monitoring (RPM), Internet of Things (IoT), Advanced Robotics, Machine and Deep Learning, Cloud Computing, Data Analytics, Digital Twins and Smart Machines is making a significant contribution to Maintenance, Reliability and Asset Management. The evolution of these maintenance philosophies along with international standards including ISO55000 series have been influenced by the developments in a host of technologies, decision models and asset management framework.

Internet of Things (IoT), artificial intelligence, big data analytics and smart machines are changing our lives in every sphere. These technologies and analytics are going to have a significant impact on how maintenance, reliability and asset management strategies evolve.

ABOUT THE UNIVERSITY

Manipal Academy of Higher Education (MAHE), an Institution of Eminence Deemed to be University, is a self-financing higher educational institution that started its operations in 1953 by establishing the first self-financing medical college as Public Private collaboration model. Over the years various institutions have been added and finally, in June 1993, this group of institutions have been declared as a Deemed to be University by the Govt. of India. Its excellent track record in academics, infrastructure, and research contributions and its standing in the national and international rankings, culminated in it being declared as an Institution of Eminence Deemed to be University (IoE) by the Ministry of Education, Govt. of India, in October 2020.

MAHE is synonymous with excellence in higher education. Over 35,000 students from 60+ nations live, learn, and play in the sprawling University town, nestled on a plateau in Karnataka's Udupi district. It also has nearly 3000+ faculty and almost 10000+ other support and service staff, who cater to the various professional institutions in Health Sciences, Engineering, Information Technology & Management, Communication, Humanities, Liberal Arts, and Social Sciences, etc. which dot the Wi-Fi-enabled campus.

The MAHE has off-campuses in Mangaluru, Bengaluru, and Jamshedpur and an off-shore campus in Dubai (UAE). The Mangaluru campus offers Medical and Dental programmes. The Bengaluru campus offers programmes in Regenerative Medicine, Engineering, Art & Design, Humanities, Liberal Arts, Social Sciences, Law, and Management. The Dubai campus offers programmes in Engineering, Management, Architecture, Information Sciences, Media Communication, etc.

Every institute has world-class facilities and pedagogy, which are constantly reviewed and upgraded to reflect the latest trends and developments in higher education. Presently MAHE offers about 300+ programmes in 31+ streams which include undergraduate, postgraduate, and postdoctoral levels at its campuses in India and overseas.

MAHE is an ISO 9001:2015, 14001:2015, and 50001:2018 certified Deemed University and has won the prestigious IMC Ramkrishna Bajaj National Quality Award and the International Asia Pacific Quality Award in 2007-2008.

The Manipal Group, a pioneer in higher education services with more than six decades of experience in excellence, also owns and operates campuses in Sikkim, Jaipur in India, and Malaysia, and Antigua, in the Caribbean.

For more information, visit: http://www.manipal.edu

Department of Mechanical and Industrial Engineering

The Department of Mechanical and Industrial Engineering (MIE) was established in the year 1960. It is the largest department in the institute, comprising two undergraduate and three postgraduate programs. Over the years, the department has developed to become a centre of excellence, providing in-depth technical knowledge and opportunities for innovation and research. Innovative teaching methods, industrial collaborations, and state-of-the-art infrastructural facilities are the strengths of the department. The department has a strong research interest in diverse areas of mechanical and industrial engineering and offers a PhD program. The focused research areas of the department are materials, design, thermal, manufacturing, and industrial & systems engineering. Moreover, the department is recognized as a Quality Improvement Program (QIP) minor center by the MHRD, Govt. of India, which has boosted the department's research activities.

Furthermore, the department offers a dual degree program that allows students to complete two undergraduate degrees in four years. Students begin by enrolling in and successfully completing the first two years of the Bachelor of Technology (BTech) program in the Mechanical stream at the Manipal Institute of Technology (MIT). Following this, they transfer to Deakin University to complete the remaining two years of the Bachelor of Engineering (Honours) program. Upon successful completion of the program, students graduate with two globally recognized degrees from two leading universities, MIT and Deakin University, enhancing their academic credentials and career prospects.

For more information, visit: https://www.manipal.edu/mit/department-faculty/department-list/mechanical-and-manufacturing.html



The conference aims to foster the United Nation's Sustainable Development Goals (SDGs), a shared blueprint for peace, and prosperity for the people and the planet, now and into the future





















FEDERATION UNIVERSITY, AUSTRALIA

Federation University Australia was formed when the former University of Ballarat and the Gippsland Campus of Monash University were amalgamated. Since the establishment of the School of Mines Ballarat (SMB) in 1870, Federation University Australia has emerged in multiple forms, and under multiple names, to educate generations of engineers, nurses, and teachers – and in more recent years, games designers, sports and exercise scientists, craft beer brewers, and other professional occupations inconceivable to the University's founders in the late 19th century. With both university and TAFE campuses in Ballarat, Berwick, Brisbane, Gippsland and the Wimmera, we became Federation University in 2014 – a new entity bringing together almost 150 years of history from our predecessor institutions. At Federation University, the desire to transform lives and enhance communities informs everything we do. From research that improves people's lives right around the world, to supporting our students to succeed at their studies and in life – we make a difference.

Federation University is a diverse community with over 24,000 domestic and international students and 110,000 alumni across Australia and the world. We are creating a Federation of independent thinkers, of like-minded individuals who are determined to make their mark. Today, our footprint stretches around the world, thanks to key partnerships established domestically, and with institutions in China, Malaysia, and India.

For more information, visit: https://federation.edu.au

ASSET MANAGEMENT COUNCIL, AUSTRALIA

The AM Council is a non-profit, membership-based association comprising Individuals (engineers, commercial managers, finance professionals) and companies, as well as corporate sponsors involved in Asset Management in Australiasia.

The Council has been central to the development of industry frameworks in Australia and Internationally, developing an Asset Management Body of Knowledge (AMBoK) and contributing to the Australian Standards Committee and ISO Committee in the development of current ISO 55000 Standards for Asset Management.

The AM Council delivers professional development programs for Individuals – certification, training and mentorship, and networking opportunities. The Council also supports companies in benchmarking performance against best-practice (and aligned to ISO55000) through delivery of an Asset Management Maturity Assessment model.

The AM Council is a Technical Society of Engineers Australia, represented by local chapters in every State and Territory. The Council is also a founding member of both the Global Forum on Maintenance and Asset Management (GFMAM) and the World Partners in Asset Management (WPiAM).

For more information, visit: https://www.amcouncil.com.au/

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Authors are required to upload a softcopy of the original full paper and unpublished research work through easy chair submission on or before 15th August 2024. The authors should mention their affiliation with corresponding addresses, email, telephone, and fax numbers. Submission of the full paper will be accepted only through easy chair submission.

The final acceptance of the paper for oral presentation will be based on peer review. Efforts are on to tie up with quality scopus indexed journals/conference proceedings.





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https://easychair.org/conferences/?conf=icmiam2024
Paper Format Link:

https://conference.manipal.edu/ICMIAM2024/Docs/ICMIAM%20Full%20Paper%20Format.docx

TOPICS OF INTEREST (but are not limited to)

- Asset Management
- · Lifecycle cost analysis
- · Remaining useful Life analysis
- IS055000 and related standards
- Tribology
- · Digital Asset Management
- Energy Management
- · Smart Grids
- · Water management
- · Water Audit Analysis
- Machine learning and Artificial Intelligence for machine health diagnostics

- Cyber security Challenges and Risk Management
- Industrial IoT
- · Data Analytics
- Reliability and Resilience
- Risk and Performance Assessment
- Asset Life cycle cost and efficiency
- Regulations and compliance
- Condition Based Maintenance
- ISO55001 certification and Beyond

REGISTRATION DETAILS (inclusive of GST)*+

		Early Bird (on or before 15/10/2024)	Regular (16/10/2024 to 15/11/2024)	
1.	Academicians			
	Indian	INR 9,440	INR 11,800	
	Foreign	USD 354*	USD 472	
2.	R & D Institutes/Industries			
	Indian	INR 11,800	INR 14,160	
	Foreign	USD 472*	USD 590	
3.	Research Scholars & Students			
	Indian	INR 3,540	INR 4,720	
	Foreign	USD 177*	USD 236	
4.	Spot Registration			
	Indian	INR 14,750 (Academicians)		
		INR 17,700 (R & D Institutes/Industries)		
		INR 5,900 (Research Scholars & Students)		
	Foreign	USD 572 (Academicians)		
		USD 690 (R & D Institutes/Industries)		
		USD 336 (Research Scholars & Students)		

- * Bank charges are to be borne by the payee.
- # Foreign participants should register by 15th October 2024 to facilitate the visa approval process by the Government of India.
- + GST charges are not applicable for MAHE Faculty & Students.

REGISTRATION GUIDELINES

- 1. Registration fee is non-refundable.
- 2. Registration is mandatory for all presenters.
- $3. \ \ Registration fee covers for a single paper presentation only.$
- 4. Registration fee includes conference kit, presenting/participating in the conference, lunch and gala dinner.
- 5. Certificates will be given only to presenting authors.
- 6. For Co-authors certificate extra charges will be applicable.

IMPORTANT DATES

Full paper submission >> 15th August 2024

Notification of acceptance >> 30th September 2024

Early bird Registration >> 15th October 2024

Last Date for Registration >> 15th November 2024

Conference dates >> 16th and 17th December 2024

ADDRESS FOR COMMUNICATION

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Department of Mechanical and Industrial Engineering Manipal Institute of Technology, Manipal Academy of Higher Education Manipal - 576 104, Karnataka, India.

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Email: icmiam2024@manipal.edu

 $We b site: {\color{blue}https://conference.manipal.edu/ICMIAM2024/}$



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