



INSTITUTE OF RURAL MANAGEMENT ANAND

THIRD INTERNATIONAL
CONFERENCE ON
**Maintenance
and
Intelligent
Asset
Management**

13-15 DECEMBER 2022
VENUE:IRMA, ANAND

SUPPORTED BY



ICMIAM 2022

RURAL ASSETS FOR SUSTAINABLE DEVELOPMENT

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OVERVIEW OF THE INTERNATIONAL CONFERENCE ON MAINTENANCE AND INTELLIGENT ASSET MANAGEMENT (ICMIAM)

The International Conference on Maintenance and Intelligent Asset Management (ICMIAM) is a conference series that began in the year 2020. The Conference series aims to:

- Bring awareness on the possibilities in Maintenance, Reliability and Asset Management.
- Showcase the best practices and achievements in Maintenance, Reliability and Asset Management programs.
- Create a forum of industry experts and academic to build a knowledge base on high-quality asset management applications, and
- Foster networking across multiple disciplines.

The inaugural Conference, ICMIAM 2020, was hosted by the Manipal Academy of Higher Education, and co-sponsored by Federation University, Australia and Asset Management Council, Australia. It was held at Manipal Academy of Banking, Bangalore. The 2021 edition of this Conference, ICMIAM 2021, was organized by Federation University, Australia and was held in a hybrid mode – both online, as well as at Federation University's Mount Helen Campus in Ballarat, Australia.

The 2022 edition of the Conference, ICMIAM 2022, would be held at the Institute of Rural Management Anand (IRMA) at Anand, Gujarat, India. The host for this Conference is IRMA, with the support of Manipal Academy of Higher Education and Federation University, Australia as co-hosts.

The theme of this conference is focused on, "Rural Assets for Sustainable Development". This theme will add on to the basic purpose of the Conference series.

OVERVIEW OF ICMIAM 2022

ICMIAM 2022 builds on two themes:

- 1.Asset Management (AM) and Systems (AMS)
- 2.Rural Assets and SDGs

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. The tools and techniques necessary for better maintenance can be developed and applied with an enhanced understanding of tribology. In recent years, the concept of Industry 4.0 which deals with Remote Performance Monitoring (RPM), Internet of Things (IoT), Advanced Robotics, Machine and Deep Learning, Cloud Computing and Data Analytics is making a significant contribution to maintenance, reliability and asset management. The evolution of these maintenance philosophies along with international standards including ISO 55000 series have been influenced by the developments in a host of technologies, decision models and asset management framework. Internet of Things (IoT), Artificial Intelligence and Big Data Analytics 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.



The Sustainable Development Goals (SDGs) are designed to be a “blueprint to achieve a better and more sustainable outcome for all by 2030”. In both the 2030 Agenda for SDGs and the New Urban Agenda (NUA), United Nations Members agreed to policies that support integrated urban and territorial planning and development. Rural assets created that are policy-driven across all these dimensions have a substantive role in influencing the divides and maintain an equilibrium in the rural-urban continuum. This strategic intent notwithstanding, various associated challenges face the rural sector, populace, and sector organizations. The key challenges include, inter alia, social, economic, financial, and digital assets in the changed environment. Consideration by the policymakers, academia and practitioners to understand and assess returns of rural assets is quite limited. The returns on ownership and rural asset investment are significant concerns and cannot be ignored to achieve the SDGs. It is also important to note that rural assets have special effects in asset management space due to the sensitive development challenges. These challenges are livelihood-centric, capability for low capital investment and scale, fragmented and household centric production systems with assets of low capital, high dependence on non-core assets (intangible) and yet critical (including commons); emerging digital divides with the disparity in digital assets, inequitable access to physical assets like infrastructure, logistics in supply chain and above all information asymmetry.

CALL FOR PAPERS

Authors are required to submit the softcopy of the extended abstract of original and unpublished research work through **EasyChair (www.easychair.org)** on or before **31 May 2022**.

The extended abstract should be limited to 1000 words, as per the template ([hyperlink](#)), through EasyChair, which should include the objective, methodology, results and conclusion. The language of the conference will be English. Two types of copies of the abstracts - one in MS word and the other in PDF format - with single spacing (12 pt, Times New Roman) should be submitted. The authors should mention their affiliation with corresponding addresses, email, telephone and fax numbers. Submission of the extended abstract will be accepted only through email.

Upon acceptance, the authors have to submit the full paper - limited to 6000 words - as per conference format ([hyperlink](#)) through EasyChair. The final acceptance of the paper for oral presentation / poster presentation will be based on peer review. Arrangements have been made to publish selected papers in reputed international journals as per the editorial policy of the journal. It may be noted that the submitted papers must not be under consideration by any other journal or publication.

CONFERENCE TRACKS

- 1 Asset Management (AM) and Systems (AMS)**
- 2 Reliability, Availability and Maintainability (RAM) and Maintenance Management (MM)**
- 3 Safety Engineering and Analytics (SEA), Security, Risk Management and Human Factors (SRM-HF)**
- 4 Socio-Economic Assets and SDGs**
- 5 Digital Assets Governance and SDGs**
- 6 Rural Infrastructure, Services, and SDGs**

INSTITUTE OF RURAL MANAGEMENT ANAND

The Institute of Rural Management Anand (IRMA) (www.irma.ac.in) was founded by Dr. Verghese Kurien - fondly known as the father of the White Revolution in India - in 1979. His professional management and governance were the key contributors for the success of the White Revolution, and IRMA was set up to replicate these skills for the underserved sector. Doing so requires utmost commitment, perseverance and dedication. IRMA's programmes have been designed in a manner that exemplifies these virtues.

IRMA's journey started with the flagship Post Graduate Diploma in Management (Rural Management) - the PGDM(RM) - which is the two-year course that has given more than 3500 changemakers to the world as its alumni. The Fellowship Programme in Management (Rural Management) - the FPM(RM) - was introduced to stimulate academic and research work and develop scholars and teachers in the domain of Rural Management. The 15-month Post Graduate Diploma in Management (Rural Management-Executive) - the PGDM(RM-X) - was introduced specially for executives with work experience who want to upskill and take their careers to the next level.

With its vast network of partner organizations, the ground-breaking research and publication being undertaken by its faculty and the cadre of professional managers being created every year, IRMA is perfect to take development to the last mile.



FEDERATION UNIVERSITY, AUSTRALIA

At **Federation University (www.federation.edu.au)**, 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.

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.

As a young university, we have the energy and optimism of youth combined with the knowledge and experience that comes from our history as one of the oldest universities in Australia, dating back to 1870.

We are 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.

MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education (www.manipal.edu) recognised as an Institute of Eminence by the Government of India, is well known not just in India, but the world over. Although it got the deemed university status in 1993, the seeds for its magnificent growth were sown way back in 1953 with the setting up of the flagship Kasturba Medical College on what was then a barren hilltop. The last sixty nine years have seen institutes at Manipal taking meticulous and meaningful steps to build reservoirs of intellectual wealth and academic excellence.

Started in the year 1960, the **Department of Mechanical and Manufacturing Engineering (MME)** (<https://manipal.edu/mit/department-faculty/department-list/mechanical-and-manufacturing.html>) is the largest department in the Institute comprising two undergraduate and four postgraduate programs. The department's strength lies in having a good number of experienced and well qualified faculty and state-of-the-art infrastructural facilities.

ASSET MANAGEMENT COUNCIL, AUSTRALIA

The Asset Management Council (www.amcouncil.com.au) is a membership-based, not-for-profit organization, a Technical Society of Engineers Australia, a founding member of the Global Forum on Maintenance and Asset Management (GFMAM) and a founding member of the World Partners in Asset Management (WPiAM).

As an internationally recognized organisation at the forefront of asset management knowledge and development, we provide information and guidance on asset management across a multitude of industries and professional roles, both in Australia and overseas. Our professional services, technical knowledge, and organizational experience act as a platform for professional development and industry recognition, and our international affiliations link our stakeholders to a community whose knowledge and experience is drawn from all levels of practice.

Our vision is to "enable value from effective asset management".

UNITED NATIONS UNIVERSITY-eGOV, PORTUGAL

The United Nations University (UNU) is a global think tank and postgraduate teaching organisation headquartered in Japan. The mission of the UN University is to contribute, through collaborative research and education, to efforts to resolve the pressing global problems of human survival, development and welfare that are the concern of the United Nations, its Peoples and Member States.

In carrying out this mission, the UN University works with leading universities and research institutes in UN Member States, functioning as a bridge between the international academic community and the United Nations system.



ASSET MANAGEMENT SOCIETY OF INDIA

Asset Management Society, India is a membership-based, not-for-profit organization with the aims to carry out activities that enhance the advancement of asset management and maintenance for professionals and organisations and to lead good practice for effective community and infrastructure asset management for public and industry good. AMSI provides information and professional assistance and advice on asset management across a variety of industries and professional responsibilities. Our professional services, technical knowledge, and organisational experience act as a platform for professional development and industry recognition, and our international affiliations link our stakeholders to a community whose knowledge and experience is drawn from all levels of practice.

INDIAN INSTITUTE OF MANAGEMENT KOZHIKODE

The Indian Institute of Management Kozhikode is an autonomous business school located in Calicut, Kerala. The institute, set up in 1996 by the Government of India in collaboration with the State Government of Kerala, is one of the 20 Indian Institutes of Management (IIMs). It was the fifth IIM to be established. It conducts a full range of academic activities in the field of management education covering research, teaching, and training, consulting and intellectual infrastructure development.

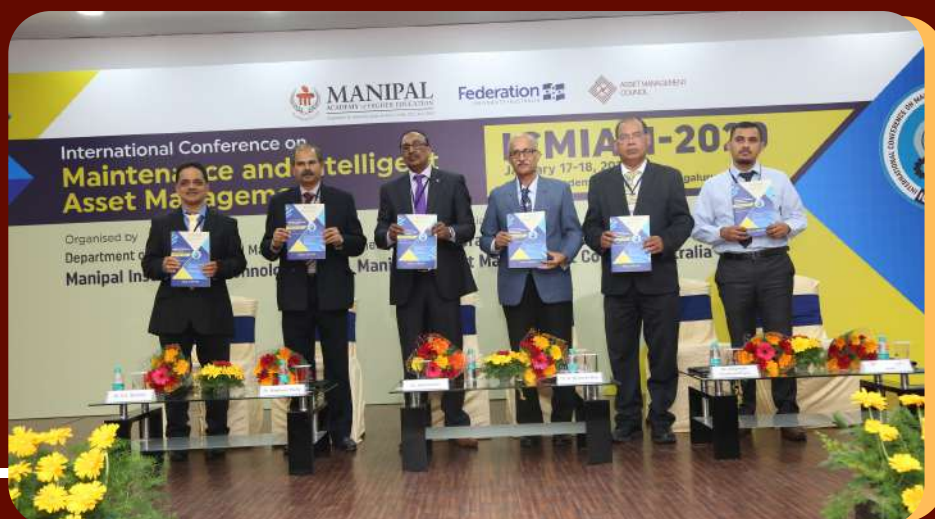
LULEÅ UNIVERSITY OF TECHNOLOGY, SWEDEN

Luleå University of Technology (Swedish: Luleå tekniska universitet) is a public research university in Norrbotten, Sweden. The university has four campuses located in the Arctic region in the cities of Luleå, Kiruna, Skellefteå, and Piteå.[1]

With more than 17,000 students and about 1,500 employees (academic and administrative), Luleå University of Technology is a middle-sized academic institution in Sweden and Scandinavia's northernmost university of technology.

LAVAL UNIVERSITY, CANADA

Laval University (French: Université Laval) is a public research university in Québec City, Québec, Canada. It is the oldest centre of higher education in Canada and the first North American institution to offer higher education in French. The university, which started in Old Québec, moved to a new campus in the 1950s in the suburban borough of Sainte-Foy-Sillery-Cap-Rouge. It is ranked among the top 10 Canadian universities in terms of research funding and holds 4 Canada Excellence Research Chairs.



REGISTRATION DETAILS (inclusive of GST at 18%)

Sr. No.	Category	Early-bird registration (on or before 15 November 2022)	Regular registration (after 15 November 2022)	Only for Workshop	Both Workshop and Conference
1	Academicians and Research Scholars	Indian: INR 10620 Foreign: USD 354	Indian: INR 11800 Foreign: USD 472	Indian: INR 3540 Foreign: USD 50	Indian: INR 12000 Foreign: USD 400
2	R&D Institutions/ Industries	Indian: INR 14160 Foreign: USD 413	Indian: INR 17700 Foreign: USD 472	Indian: INR 4000 Foreign: USD 55	Indian: INR 15000 Foreign: USD 500
3	Students*	Indian: INR 5900 Foreign: USD 295	Indian: INR 7080 Foreign: USD 354	Indian: INR 2000 Foreign: USD 30	Indian: INR 7000 Foreign: USD 300
4	Spot registration	Indian: INR 14160 Foreign: USD 531	-	Indian: INR 5000 Foreign: USD 70	Indian: INR 20000 Foreign: USD 600

Online payment can be made through www.irma.ac.in/ICMIAM2022

*10% discount for students having membership in IEEE/ACM. They have to provide valid membership certificate at the time of registration.

IMPORTANT DATES

Paper Submission

Extended Abstract submission	30 June 2022
Extended Abstract acceptance	31 July 2022
Full paper submission	30 September 2022
Full paper acceptance	31 October 2022
Early-bird registration	31 July 2022 - 31 October 2022
Last date for registration	1 December 2022

Workshop Proposal Submission

Proposal Submission	30 June 2022
Acceptance Notification	31 July 2022
Final Submission	31 August 2022
Registration	As detailed in the registration table

SPONSORSHIP DETAILS

Category	Foreign Sponsors	Indian Sponsors	Privileges
Platinum	USD 7500	INR 200000	Logo in website and Souvenir. Colour advertisement in the back page of the Souvenir. One exhibition stall 3m x 3m. Free Registration for 3 delegates + Business meet.
Gold	USD 3500	INR 100000	Colour advertisement in the inside front page of the Souvenir. One exhibition stall 3m x 3m. Free Registration for 3 delegates + Business meet.
Silver	USD 2500	INR 75000	Colour advertisement in the Souvenir. One exhibition stall 3m x 3m. Free Registration for 2 delegates + Business meet.
Bronze	USD 1500	INR 50000	Half page colour advertisement in the Souvenir.

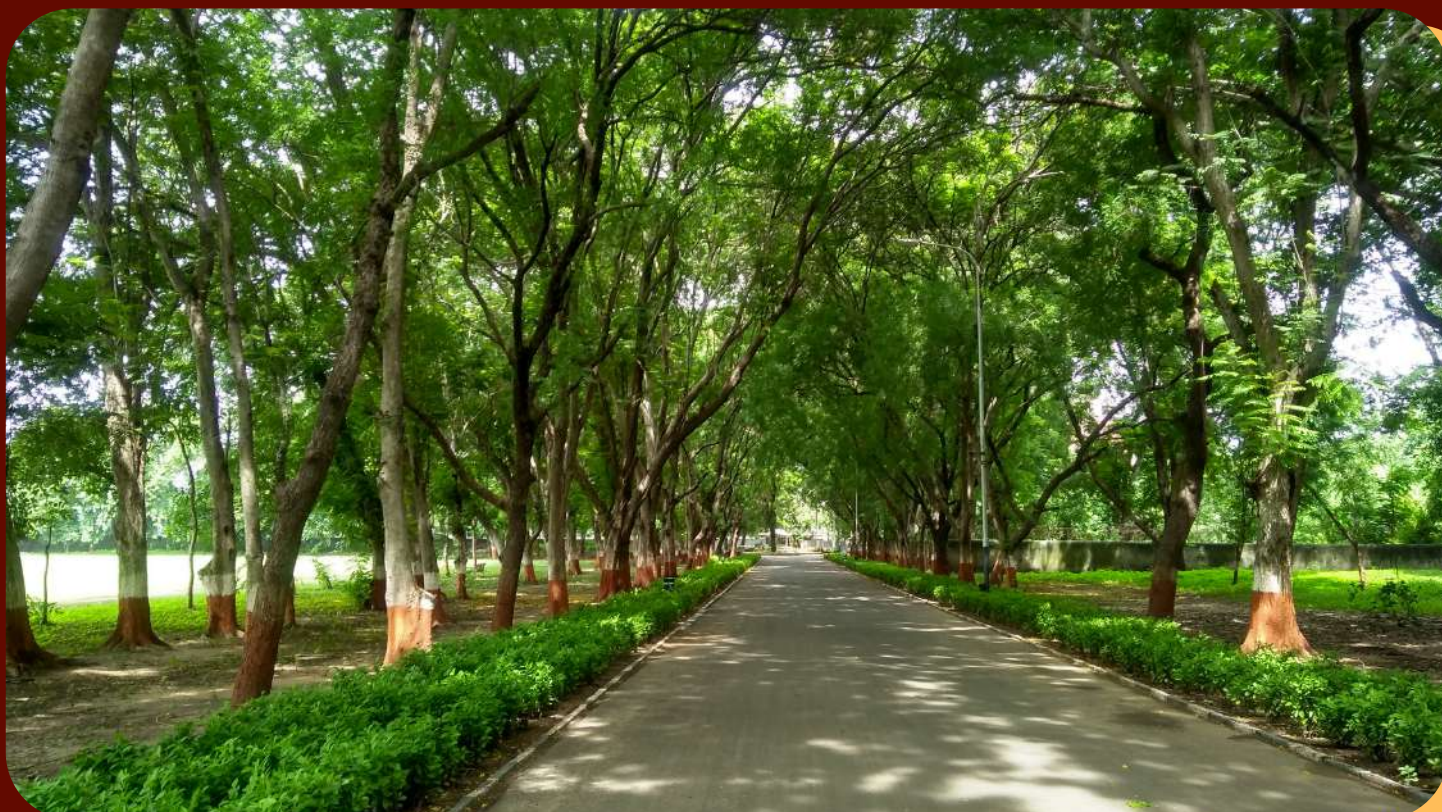
REACH OUT!

Institute of Rural Management Anand (IRMA)

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