

MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR



**In collaboration with
Western Norway University of Applied Sciences**



**The UNified International Conference on Emerging Technologies
in Cyber-Physical Systems and Industrial AI**

UNified 2024

NOVEMBER 26-28,2024

UNified 2024

**INDUSTRY
4.0**

<https://unified2024.netlify.app/>

About UNified 2024

The 3-day event will provide the ideal opportunity for researchers, industrialists, and equipment manufacturers/suppliers to meet, share ideas and learn about the latest scientific and technological advances in all of the listed fields, along with the future directions that each of the fields is taking.

Participating Members

-  INTPART-UTFORSK Project on Cyber-physical Systems (Professor Maneesh Singh, The Western Norway University of Applied Sciences),
-  IncoME conference (Professor Jyoti Sinha, University of Manchester),
-  TTEPEN Conference (Professor Andrew Ball, University of Huddersfield, UK; Professor Fulei Chu, Tsinghua University, China; Professor Fengshou Gu Beijing Institute of Technology)
-  DAMAS Conference (Professor Huajiang Ouyang, University of Liverpool)

Collaborating Conferences

IncoMe

The International Conference on Maintenance Engineering

TEPEN

The Efficiency and Performance Engineering Network Conferences

DAMAS

International Conference on Damage Assessment Structures



UNified 2024

Key Dates

Abstract acceptance notification. Two weeks after submission

- 30/05/24: Abstract submission deadline
- 04/07/2024: Early registration deadline
- 07/07/2024: Full paper submission deadline.
- 06/08/2024: Paper acceptance notification
- 22/10/2024: Keydates deadline
- 26-28/11/2024: Conference

Paper Submission

Easy chair link

<https://tinyurl.com/24etvsz4>

UNified 2024

Committees

Patron

Prof. N.P. Padhy

Director, Malaviya National
Institute of Technology
Jaipur, India

Conference Chair

Prof. Maneesh Singh

Western Norway University
of Applied Sciences, Bergen,
Norway

Committees

Conference Co-Chairs

Prof. Andrew Ball

University of Huddersfield, U.K.

Dr. Gunjan Soni

Malaviya National Institute of
Technology, Jaipur, India

Prof. Huajiang Ouyang

University of Liverpool, U.K.

Prof. Jyoti Sinha

University of Manchester, U.K.

Local Organizing Committee from MNIT Jaipur

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Prof. M.L. Mittal
General Chair

Dr. Gunjan Soni,
Organizing Secretary

Dr. Nikhil Sharma
Organizing Secretary

Dr. Naresh Raghuvanshi
Joint Secretary

Dr. Gulab Pamnani
Joint Secretary



Registration Fees

- 15% Discount in Early bird registration
- Indian research scholars – Rs. 4000/-
- International research scholars - \$200
- Indian academicians – Rs. 7000/-
- International academicians - \$350
- In Hybrid Mode (Only for International Participants) - \$100
- Industry participants from India– Rs. 10000/-
- Industry participants from outside India – \$500

Scientific Committee

- Dr. Neeraj Goyal, IIT Kharagpur, India
- Prof. Arvind Keprate, Oslomet, Norway
- Prof. OP Yadav, NCAT, USA
- Dr. Kassandra.A.Papadopoulou,he University of Manchester, UK
- Prof. Khanindra Pathak ,IIT Kharagpur, India
- Prof. Z.K. Peng,Shanghai Jiao Tong University, China
- Dr. Amir Rahbarimanesh,The University of Manchester, UK
- Prof. A.S. Sekhar,IIT Palakkad, India
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- Prof. Mayank Tiwari,IIT Patna, India
- Prof. Jiawei Xiang,Wenzhou University, China
- Prof. Radoslaw Zimroz,Wroclaw University of Technology, Poland
- Dr. Monica Tanwar, IIT Jodhpur
- Dr. Signe Riemer-Sorensen,SINTEF AS,
- Dr. Deepti Mishra, Norwegian University of Science and Technology
- Dr. Chetan Kulkarni,US-NASA Ames Research Center, USA

Scientific Committee

- Prof. Basim Al-Najjar,Linnaeus University, Sweden
- Prof. David Baglee, University of Sunderland, UK
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- Prof. Filipe Didelet, Polytechnic Institute of Setubal, Portugal
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- Dr Soumendu Jana NAL, Bangluru, India
- Prof. Lin Jing Beihang University, Beijing, China
- Mr N.S. Joshi,Bhabha Atomic Research Centre, India
- Prof. Ramin Karim, Luleå University of Technology, Sweden
- Dr. Ravdeep Kour,Luleå University of Technology, Sweden
- Prof. Anil Kumar,Wenzhou University, China
- Prof. Rajesh Kumar Sant,Longowal Institute of Engineering & Technology,Longowal, INDIA
- Dr. Mohit Lal, NIT Rourkela, India
- Mrs. María del Carmen García Lizárraga Lawrence Berkeley National Laboratory, USA
- Prof. Tore Markeset, University of Stavanger, Stavanger, Norway
- Prof. Xie Min, City University of Hong Kong, Hong Kong
- Prof. Amiya Ranjan Mohanty, IIT Kharagpur, India
- Prof. C. 'Nat' Nataraj, Villanova University, USA
- Prof. Raghuvir Pai, Manipal Academy of Higher Education, India

UNified 2024

About conference

The combined conference, which we are informally calling “UNified 2024” will bring together engineers, scientists and technologists, researchers, developers, and practitioners who work in the area of:

1. Sensors and Measurement Systems
2. Condition Monitoring and Predictive Maintenance
3. Industrial Internet of Things (IIoT)
4. Cyber physical systems (CPS)
5. Artificial Intelligence / Machine Learning in Maintenance and Production Environment
6. Government Policies

Scope



The conference covers a broad area with multi-disciplinary interests in the fields of plant maintenance, asset management, reliability, condition monitoring, artificial intelligence and related areas, ranging from fundamental research to real-world applications.



The conference welcomes the submission of papers in the nature of original research, technical review and tutorial from the following, but not limited to, cyber physical systems applications in following areas.

Areas

- Condition Monitoring and Machine Health Monitoring with CPS
- Predictive Maintenance with CPS
- Electrical Vehicle Energy Management with CPS
- Health, Safety & Carbon Neutralization with CPS
- Industrial Internet of Things (IIoT)
- Non-Destructive Testing with CPS
- Prognostics and Health Management
- Reliability, Availability, Maintainability & Safety
- Sensors, Instrumentation and Measurement Systems
- Structural Integrity with CPS
- Vibro-acoustics Monitoring with CPS
- Cyber-Physical Security
- Integration and Interoperability
- Human-Machine Interaction
- Real-Time Control of CPS
- Distributed Systems and Edge Computing



UNified 2024

Malaviya National Institute of Technology Jaipur



Western Norway University of Applied Sciences



About us

The Institute was jointly established in 1963 as Malaviya Regional Engineering College Jaipur by the Government of India and the Government of Rajasthan. Subsequently, on 26 June, 2002, the college was given the status of National Institute of Technology. On 15 August 2007, it was recognized as the Institute of National Importance through an Act of Parliament. The Institute is fully funded by the Ministry of Education (Shiksha Mantralaya), Government of India

CONTACT US

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