



National Conference on Condition Monitoring NCCM-2024



(Theme: Artificial Intelligence for Condition Monitoring)

04-05 October 2024

Department of Mechanical Engineering
Visvesvaraya National Institute of Technology, Nagpur
South Ambazari Road, Nagpur - 440010
Maharashtra (India)



A Two day
National Conference on
**CONDITION
MONITORING**

**(Theme: Artificial Intelligence
for Condition Monitoring)**

Organized by
Visvesvaraya National Institute of Technology Nagpur

Under the Aegis of
Condition Monitoring Society of India

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VNIT Nagpur

Visvesvaraya National Institute of Technology (VNIT), Nagpur, named after the eminent engineer, planner, and statesman of the country Sir M. Visvesvaraya, is one of the thirty National Institutes of Technology in the country. It has nine undergraduate, twenty four postgraduate programs with a total student strength of 5000, which includes about 500 PhD scholars. A lush green VNIT campus is sprawled over 214 acres, located centrally in the city of Nagpur, with residential facility for 3500 students. At present VNIT amongst top five NITs in the country. Historically, this institute is known as Visvesvaraya Regional Engineering College established in 1960 and eventually got the status of National Institute Technology in 2002.

Today, VNIT is Institute of National importance and has ascended itself from a teaching-oriented campus to a blend of research and teaching. Institute has many R&D projects funded through Government and private agencies. Faculty, research scholars, and students are actively involved in the research activities which is reflected in the increased number of publications, research funds, and many national and international events being arranged on the campus.



Condition Monitoring Society of India

Condition Monitoring Society of India (CMSI) was established in 2003 with an intention to promote and emphasize the importance of condition monitoring among professionals/ practicing engineers plant engineers by way of conducting conferences and workshops from time to time. The society also intends to be a common platform for condition monitoring professionals to share their experience and expertise. The society publishes a newsletter to keep members abreast of the developments in the field. The society has grown rapidly by setting up local chapters at different locations all over India.

About Nagpur City

Nagpur is the third largest city and the winter capital of Maharashtra State. Nagpur lies precisely at the centre of the country with the Zero Mile Marker indicating the geographical centre of India. In the latest rankings of 100 developing smart cities given by the Union Ministry of Urban Development,

Nagpur stood first in Maharashtra state and second in India. Nagpur Metro has entered Guinness Book of World Records for being the longest doubledecker viaduct metro measuring 3.14 km on Wardha Road. Known as the “Orange City”, Nagpur has officially become the greenest, safest and most technologically developed city in the Maharashtra state. Nagpur is also known as the, “Tiger Capital of India” as it connects many Tiger Reserves in India to the world. It is well connected to all the major cities of the country by air and has also international connectivity. Needless to say, Nagpur is a major railway junction of North-South and East-West railway lines.



ABOUT THE CONFERENCE

As a part of CMSI's endeavour to highlight growing importance of condition monitoring, a two day National Conference on Condition Monitoring (NCCM 2024) is being organized during October 4-5, 2024. A number of Condition monitoring experts, practising specialists from various organizations, institutes and industries are expected to participate in the conference. The conference provides a platform for interaction on state of art Condition Monitoring strategies being followed worldwide. It also provides an opportunity to deliberate on latest trends in the field of Condition Monitoring. The conference is also intended to generate awareness and interest among students of engineering the future torch bearers of the society. The conference aims to discuss techniques and practices such as vibration monitoring, thermography, wear debris analysis etc being employed in the industry for predictive maintenance. It would be highly beneficial for maintenance engineers of industries, R&D professionals and academicians working in this field of work.

CALL FOR PAPERS

NCCM-2024 invites papers related to various disciplines on Condition Monitoring systems for presentation and publication in the proceedings of the conference, and a souvenir to be brought out during the conference. The papers relevant to diagnosis and rectification of machinery faults with case studies are expected to benefit the participants most.

CONFERENCE TRACKS

- AI techniques in condition monitoring
- Thermography
- Oil/ Wear Debris Analysis/ Tribology
- Vibration monitoring
- Acoustic emission monitoring
- Case Studies
- Any other topic related to condition monitoring.

PROCEEDINGS

Selected papers from the conference will be published by Springer as a proceedings book volume. Springer will conduct quality checks on the accepted papers and only papers that pass these checks will be published. Springer Nature does not charge any money for publication of Non-Open Access content. Abstracts/extended abstracts and short papers (less than 4 pages) are not considered for publication.

GUIDELINES & FORMAT FOR PAPER SUBMISSION

Guidelines for paper submission

The Technical paper should be original Contribution and not published earlier. It should contain experimental investigation with specific conclusions/ Case studies of industrial importance/ simulation studies with practical demonstration/result or Design of instruments Systems Software

Format for submission of paper

- Paper should not exceed 8 A 4 Size sheets with Times New Roman Font
- Margins Left 1.5 Inch Right, Top Bottom 1.0 Inch
- Abstract 11 Point Italic with single line spacing to be placed after title and other details with Four Keywords
- Text: 12 Point normal justified, Para heading 12 Point Bold Sentence case and Spacing 1.5 lines. Figures to be inserted in jpg Format
- At least one of the authors is required to register and attend the conference to present the paper
- The maximum number of authors is 3 (three)
- The email of the corresponding author should be given

**Please Submit abstract / full paper to
vnit.nccm2024@vnit.ac.in
Important Dates Registration Fee**

IMPORTANT DATES

**Abstract submission
(Max 250 Words)**

30th March, 2024

Acceptance of abstract

30th April, 2024

Submission of full paper

30th May, 2024

Intimation of Acceptance

30th June, 2024

**Camera ready paper
along with Reg form**

30th July 2024

REGISTRATION FEE

Member of CMSI (Industry)	Rs. 3000/-
Non-Member of CMSI (Industry)	Rs. 4000/-
Member of CMSI (Academic)	Rs. 2000/-
Non-Members of CMSI Academic)	Rs. 2500/-
Research Scholar/ Engg Student	Rs. 1500/-
Institutional Member (Up to max 3)	Rs. 2000/- each

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CONVENOR

Prof. Atul B. Andhare, Convernor, NCCM 2024

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