



RAMMML-2023

02 - 04 FEB 2023

2nd International Conference on **RECENT ADVANCES IN MATERIALS, MANUFACTURING AND MACHINE LEARNING**

GUEST EDITORS



BJORN SCHULLER

Imperial College London &
University of Augsburg CSO, audEERING



DR. RAJEEV GUPTA

North Carolina State University,
United States

CONFERENCE CHAIR

Dr. J. P. Giri
HOD
Mechanical Dept.

Dr. R.B. Chadge
Dy. HOD
Mechanical Dept.

In Association with



&



The Institution of
Engineers (India)

(MAHARASHTRA STATE CENTRE AND NAGPUR LOCAL CENTRE)

Publication Partners



**materialstoday:
PROCEEDINGS**

Organized By

Department of Mechanical Engineering
Yeshwantrao Chavan College of
Engineering, Nagpur-441110

<https://www.yccemech.in>



Conference Theme

The 2nd International Conference on "Recent Advances in Materials, Manufacturing and Machine Learning (RAMMML-2023)" is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations. With its high quality, it aims to bring together both industrial and academic professional including leading academic scientists, researchers and research scholars to exchange and share their experiences, most recent innovations, trends and research results on all aspects of Advances in Materials, Manufacturing and Machine Learning.

About YCCE

Yeshwantrao Chavan College of Engineering (YCCE), Nagpur, Established in 1984, is renowned for Engineering Education and Research. It has successfully nurtured young engineering professionals, becoming a sought-after destination for students aspiring to higher technical education and placement in the competitive software and core industries. A first private engineering college to acquire 'Autonomous' status in Central India approved by AICTE & is affiliated to Rashtrasant Tukadoji Maharaj Nagpur University. The college is guided by the Academic Advisory Board consisting of eminent academicians from the prestigious technical institutes in India and USA. Accredited by National Board of Accreditation (NBA), New Delhi. NAAC has accredited the college with an "A++" grade.

The institute has been ranked amongst top Engineering Institutions all over India including IITs, NITs, and Government & Autonomous Engineering Institution by NIRF, MHRD, and Government of India. The Institute offers 12 UG & 7 PG courses apart from Ph.D. programmes. Since its inception, the institute has maintained a tradition of academic excellence and training of students for the National Service. The Institute has taken quantum jumps and is one of the leading institute's offering world class technical educations. The Institute has signed MoU's with various National and International Universities, Laboratories and Industries for academic and research interaction and collaboration for mutual benefit.



About Mechanical Engineering Department

The Department of Mechanical Engineering is one of the largest departments in the Institute, offers the UG course in Mechanical Engineering and post graduate courses in CAD/CAM and Doctoral Program in Mechanical Engineering. The department has over 20 instructional and research laboratories, equipped with some of the state-of-the-art scientific instruments and systems. The vision of the department is to be one of the attractive destinations for pursuing mechanical engineering with emphasis on innovation, research and value based education. The Department is having Siemens Center of Excellence in the field of Automation, AVEVA Center of Excellence in the field of Pipe Design. The Department has maintained a good rapport with Industry and R & D organizations. The Department has student's chapters of ASME, SAE (Society of Automotive Engineers) and ISHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers).



INTERNATIONAL ADVISORY BOARD

Dr. Schuller Bjoern	Imperial college of London	Dr. Mani Venkatesh	Montpellier Business School (MBS), France
Dr. Rajeev Gupta	North carolina state university	Dr. Peng Cao	University of Auckland, NZ
Dr. Avishek Dey	University of Delaware, USA	Dr. Nur Hassan	Central Queensland University, Australia
Dr. Meysam Heydari Gharahcheshmeh	Massachusetts Institute of Technology, USA	Dr. Saurav Goel	London South Bank University ,UK
Dr. Vipindev Adat Vasudevan	Massachusetts Institute of Technology, USA	Dr. Deepak Selvakumar R	Chung-Ang University, South Korea
Er. Amol Borkar	Ford Motor, USA	Dr. Arcot A Somashekar	The University of Auckland, NZ
Dr. Shukui Liu	Nanyang Technological University, Singapore	Dr. Maziar Ramezani	Auckland University of Technology, NZ
Dr.Pritom Jyoti Bora	National University of Singapore	Dr. Fangchen Liu	Nanyang Technological University, Singapore
Dr.Sreeprasad Sreenivasan	The University of Texas, USA	Dr. Yeliz Yoldas	Kayseri University, Turkey
Dr. Alessandro Ruggiero	University of Salerno, Italy	Dr. Naveen Srivastava	BITS, Dubai Campus

NATIONAL ADVISORY BOARD

Dr. Dilip Pratihar	IIT, Kharagpur	Dr. Satish V. Kailas	IISC, Bangalore
Dr. Milind Atre	IIT, Bombay	Dr. Nitin Balsaraf	IISC, Bangalore
Dr. Sudarsan Ghosh	IIT, Delhi	Dr. Pramod Padole	Director, VNIT
Dr. Milind Atrey	IIT, Bombay	Dr. A. M. Kalamkar	VNIT, Nagpur
Dr. Seshadri Sekhar, A.	IIT, Madras	Dr. Awanikumar Patil	VNIT, Nagpur
Dr. Chandramouli, P.	IIT, Madras	Dr. Y. M. Puri	VNIT, Nagpur
Dr. Sujeet Kumar Sinha	IIT, Delhi	Dr. G. S. Dangayach	MNIT, Jaipur
Dr. Mallikarjuna, J.M.	IIT, Chennai	Dr. R. V. Rao	SVNIT, Surat
Dr. Rakesh G. Mote	IIT, Bombay	Dr. Sunil Bhirud	Director, VJTI, Mumbai
Dr. P.P. Datey	IIT, Bombay	Dr. R. N. Awale	VJTI, Mumbai
Dr. Nalinaksh Vyas	IIT, Kanpur	Dr. D. M. Kulkarni	BITS, Goa
Dr. Mukul S. Sutaone	Officiating Director, COEP, Pune	Dr. Sachin Waigaokar	BITS, Goa
Dr. Mohan P. Khond	COEP, Pune	Dr. Anupan Agnihotri	JNARDDC, Nagpur
Dr. Rajiv B.	COEP, Pune	Mr. Pramod Patwardhan	SVP Mining Pvt. Ltd. Raipur C.G.
Dr. R. L. Srivastava	Institute of Engineers, India	Mr. Shree Jamdar	Kinetic Gears, Nagpur, India

CALL FOR PAPERS

All papers must be original and not simultaneously submitted to another journal or conference. The following paper categories are welcomed:

Materials

Advanced Materials
Functional Materials
Ceramics, Shape Memory Alloys and Nano-materials
Materials for Aerospace Applications
Polymers and Polymer Composites
Glasses and Amorphous materials
Material characterization and testing
MEMS/NEMS
Bio and Energy Materials
Magnetic and Cryogenic Materials

Manufacturing

Micro/Nano Machining
Green Manufacturing
Metal Forming,
Casting & Joining Technologies
Industry 4.0
Additive Manufacturing
Subtractive Manufacturing
Non-Conventional Machining Processes
Plastic Processing Technologies
Computer integrated manufacturing
Sustainable Manufacturing Technologies

Machine Learning

AI in biomedical engineering and informatics
ANN and evolutionary algorithms in Mechanical engineering.
Genetic algorithm
Particle swarm optimization
Simulated annealing

Modelling, Analysis and Optimization

Product Design and Development
Non-destructive testing
Modelling and Simulation
Optimization Techniques
Renewable Energy
Computational analysis (FEM, CFD)
Process Monitoring and Control
Vibration and Noise Analysis
Energy Analysis and HVAC
Fluid mechanics and heat transfer
Mechanical system modelling
Data acquisition
Robotic process automation
Mechanical failure detection
Process automation

Abstract Submission Deadline 20th September, 2022

REGISTRATION FEES

For Oral Presentation	Indian Delegate	Foreign Delegate
UG Student	₹ 3000	75\$
Research Scholar	₹ 3500	75\$
Academia	₹ 4000	100\$
Industry	₹ 4500	125\$

IMPORTANT DATES

Abstract Submission	1st September to 20th September 2022
Notification of Abstract Acceptance	Upto 30th September 2022
Full Length Paper Submission	20th September – 20th October 2022
Notification of Full Length Paper Acceptance	Upto 20th January 2023
Camera Ready Paper Submission	Upto 25th January 2023
Date of Conference	2-4 February 2023

REGISTRATION DEADLINES

Early Bird Registration	10th December-22nd January 2023
Late Registration	22nd January-30th January 2023

Info & Submission

<https://easychair.org/conferences/?conf=rammml2023>

Publication

All accepted and orally presented papers of RAMMML-2023 will be published in the following Scopus Indexed Journals/ Conference Proceedings:

1. Journal of The Institution of Engineers (India): Series C (Springer)
2. Recent Advances in Materials, Manufacturing and Machine Learning (CRC Press, Taylor & Francis)
3. Lecture Notes In Mechanical Engineering (Springer) (In process)
4. Materials Today: Proceedings (Elsevier) (In process)
5. AIP Conference Proceedings (AIP Publishing) (In process)

Contact Us

Prof. Neeraj Sunheriya

7020368408

Prof. C.A. Mahatme

8983760646

For More Details Please Visit:

<https://www.yccemech.in>

or

Scan

