



N.I.T. HAMIRPUR

(An Institute of National Importance)

International Conference on Emerging Aspects of Manufacturing, Thermal and Design Engineering (MATHED-2022)

15th - 17th Feb. 2023

HYBRID
VIRTUAL / OFFLINE

Organized by

Department of Mechanical Engineering

About MATHED-2022

The conference is named as (MATHED 2022). The conference intends to provide a general platform to various academicians, scientists, researchers, research scholars and industry persons throughout the globe working in the broad areas of Mechanical Engineering (Design, Thermal and Manufacturing Engineering) and allied areas to exchange and share their experiences and researches with the world.



**NIT
HAMIRPUR**



About N.I.T. HAMIRPUR

National Institute of Technology Hamirpur is one of the thirty-one NITs of the country, which came into existence on 7th August 1986 as Regional Engineering College, a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh.

About Department of Mechanical Engineering

The Department of Mechanical Engineering has evolved into one of the finest in terms of teaching curriculum and methodology supported by a well-organized and adequately funded research program. The Department has a very well-established B. Tech program complemented by three M. Tech. programs in Design, Thermal, and Manufacturing.

Dr. Sant Ram Chauhan
(Head of Department)

On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The goals of the Institute as embodied in logo are truly remarkable in their scope and vision. The Institute offers Bachelor, Master and Doctoral programmes in Engineering, Sciences, Architecture, Management and Humanities.

**Prof. Hiralal Murlidhar
Suryawanshi**
(Director)



www.nith.ac.in

Conference Themes

Topics for MATHED-2022 include three different core streams of Mechanical Engineering with Fundamental, Numerical / Computational and Application, but are not limited, to the following:

1

MANUFACTURING

- Artificial intelligence applied, optimization methods in manufacturing
- Automation and production control
- Computer-based manufacturing technologies: CNC, CAD, CAM, FMS & CIM
- Machining (traditional and non-traditional processes)
- Manufacturing design for 3r “reduce, reuse, recycling”
- Mechatronics and robotics
- Nanomaterials and nanomanufacturing
- Rapid manufacturing technologies and prototyping
- Real-time enterprise control
- Robust design and quality engineering
- Stochastic models and decision analysis
- Supply chain systems

2

THERMAL

- Computational Fluid Mechanics
- Micro, Nano-scale Transport
- Turbomachinery
- Propulsion and Power
- Heat and Mass Transfer
- Renewable Energy
- IC Engines and Biofuels
- Flow measurement and flow visualization
- Circular Economy and Sustainability
- Nanofluids

3

DESIGN

- Applied and Computational Mechanics
- Finite Element Modelling and Simulations
- Extended FEM, Meshfree Methods
- Engineering System Design/CAD, Optimization
- Fracture Mechanics/Solid Mechanics/Automotive Mechanics, Fatigue and Failure of Components
- Tribology and Contact Mechanics
- Vibration, Acoustics, Noise and Control, Condition Monitoring
- Kinematics and Dynamics, Robotics

Important Dates

Draft Paper Submission end:

30, Nov. 2022

Notification of Acceptance:

15, Jan. 2023

Registration ends:

10, Feb. 2023

Conference date:

15-17, February 2023

MATHED-2022
15-17 Feb., 2023

Registration Fee Details

MATHED-2022
15-17 Feb., 2023

A maximum of two papers can be presented with a single registration.

National and International Participants (GST + Transaction charges are additional)		(INR)	(US\$)
Participants from Academia/R&D	2000	200
Participants from Industry	4000	250
Students	1000	100

Bank Account Details

Account Name : Treasurer MATHED

Account No. : 40803978864

IFS Code : SBIN0010367

Bank Name : STATE BANK OF INDIA

Branch Name : NIT HAMIRPUR

MICR No. : 177002003

(Fee once paid is not refundable or adjustable under any circumstances in future.)

MATHED-2022 invites academicians, researchers, industrial participants and students to submit their original research work in the Thermal, Manufacturing, and Design fields. The paper should be restricted to 6 pages with an abstract of a maximum of 250 words and 5 keywords. Authors are requested to restrict the similarity index to 20%. The received manuscripts will be reviewed by a technical committee.

PUBLICATIONS: (Special Issues / Conference Proceedings)

Selected papers covering conference theme will be published in conference proceeding/book series index in Scopus/Web of Science.

Submit Now

<https://easychair.org/conferences/?conf=method2022>

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<https://forms.gle/BEmVaJrbYmKiqmDb9>

Paper template <https://rb.gy/edro3d>

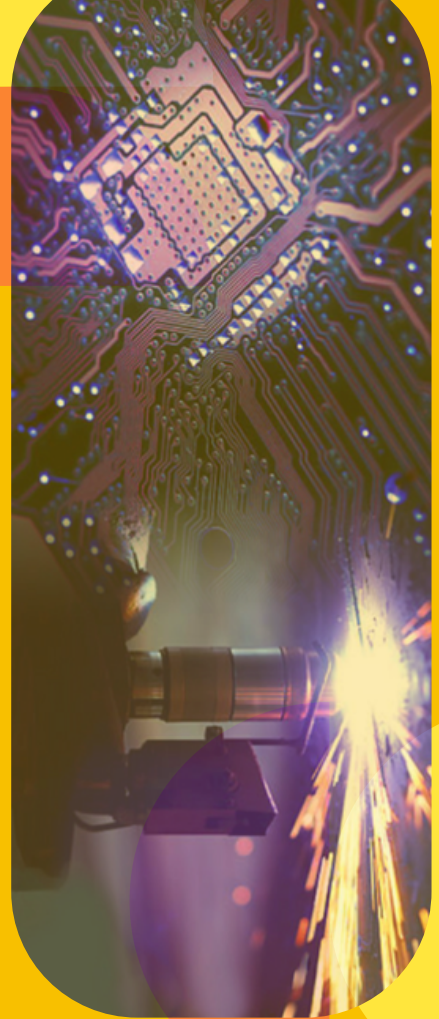
Keynote Speakers

MANUFACTURING



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(NTU), Singapore



PUNEET TANDON

Professor,
Dept. Mechanical Engg.
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INDERDEEP SINGH

Professor,
Dept. Mechanical &
Industrial Engg.
IIT Roorkee, India



J. RAMKUMAR

Professor,
Dept. Mechanical Engg.
IIT Kanpur, India



PRAVEEN VETTIYATTIL

Inventor, TEDx speaker,
'You Can Invent' founder,
CEO - YCITechnologies
Kerala, India



RAKESH THAKUR

Senior Scientist,
TBRL, DRDO, Chandigarh



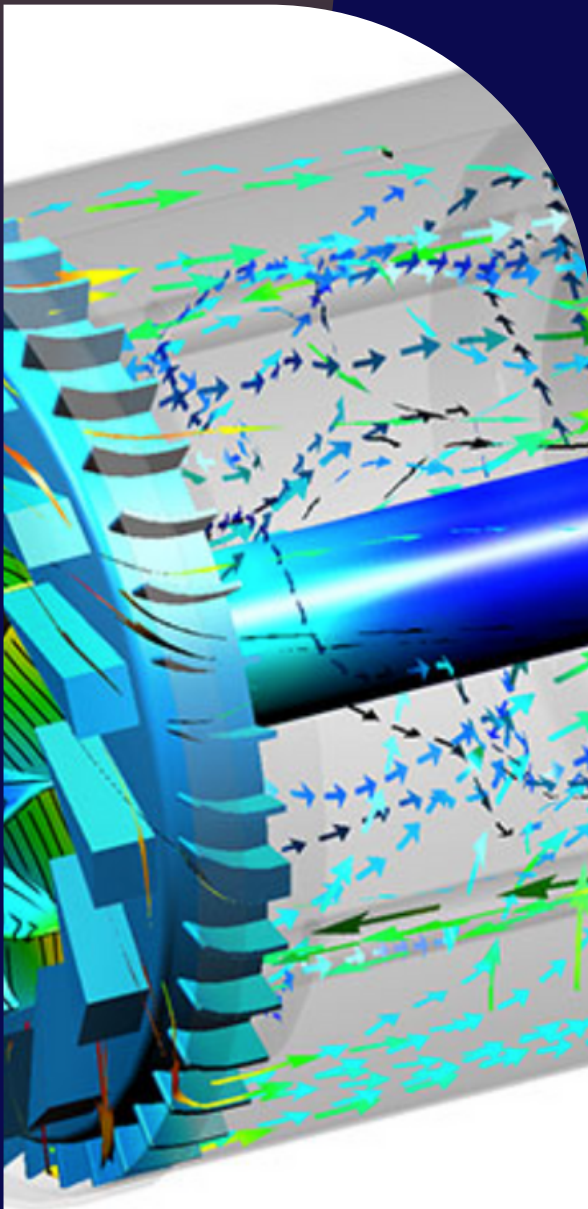
NAVDEEP BHANDARI

Senior Scientist,
ISRO, Trivendrum

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Keynote Speakers

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Deputy Editor-in-Chief -
Applied Thermal



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ANUPAM DEWAN

Professor,
Dept. Applied Mechanics
I.I.T. Delhi, India



KISHOR K. SADASIVUNI

Professor, Center for
Advanced Materials,
Qatar University, Qatar

Keynote Speakers **DESIGN**



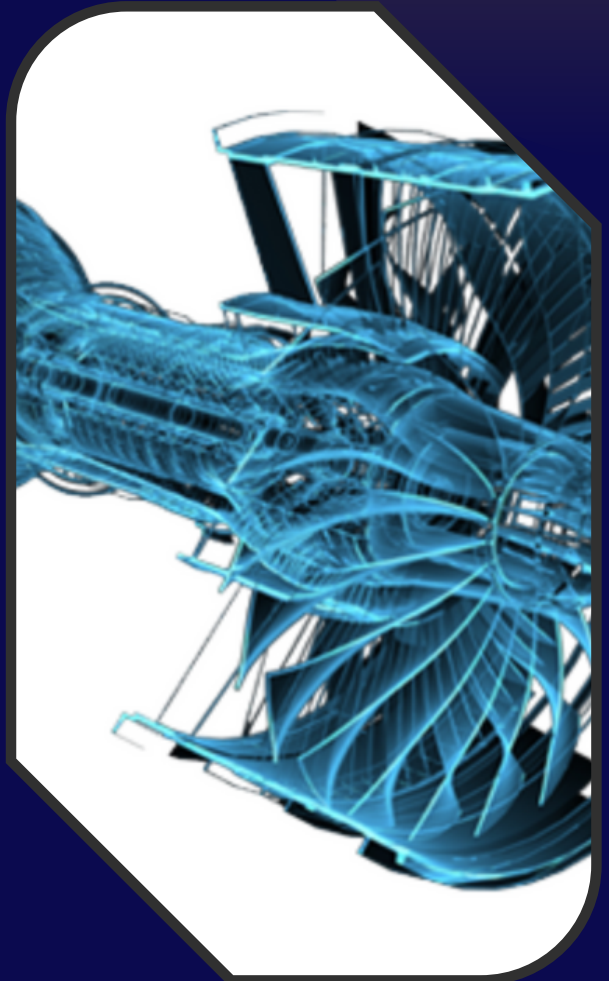
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राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर
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(An Institute of National Importance)

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