













2nd International Conference on Emerging Materials, Smart Manufacturing & Computational Intelligence - ICEMSMCI 2024

Sub-theme: Recent Innovations in Sustainable Engineering-RISE



Hybrid (In-Person & Virtual)

Hosted by Chitkara University, Punjab, India and California State University, Fullerton, US



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Division of Chitkara University Publications Centre for Research Impact and Outcome Chitkara University, Punjab, India

https://www.chitkara.edu.in/icemsmci-2024/

About Chitkara University

In the year 2002, Chitkara Educational Trust established its Punjab campus 30 kilometres from Chandigarh, on the Chandigarh–Patiala National Highway. In the year 2010 Chitkara University was established by the Punjab State Legislature under "The Chitkara University Act". Chitkara University, the best university in Punjab, India is a government-recognized university with the right to confer degrees as per the Sections 2(f) and 22(1) of the UGC Act, 1956. The sprawling campus of the University is equidistant from Chandigarh and Patiala. The University offers multidisciplinary programs, all of which are designed to be industry-relevant. As a result of this student-centric approach, Chitkara University is renowned as one of the best private universities in the North India region. From business management programs to programs in nursing and medical laboratory technologies; and from computer science, electronics and mechanical engineering programs, to hotel management and architecture—Chitkara University, Punjab is a veritable cornucopia of educational services.

About Centre for Research Impact and Outcome (CRIO)

Centre for Research Impact and Outcome (CRIO) cultivating and fostering interdisciplinary high-impact research in partnerships with external organizations, industry partners, government agencies, and community groups to amplify the impact and outcome of research. Implementing strategies to enhance the visibility and dissemination of the university's research outputs through various channels such as publications, conferences, research projects, IPR, and research labs.

About Chitkara University Publications

Chitkara University's periodical was founded in 2010 with the goal of covering broad scientific work with innovative approaches. Our publication history began with the 'Management of Technology Journal' and now it includes five journals. All peer-reviewed scientific journals are open access and indexed by well-known and reputed indexing agencies. Chitkara University Publications has always provided a limitless realm of knowledge for everyone who wants to immerse themselves in the pool of acquaintance. To pursue the University's vision and mission of investigating new subjects and techniques of research, we are committed to the edges and frontiers of academia. Our periodicals cover a wide range of subjects, including engineering, management, material science, education, pharmacy, health science and other broad fields. Chitkara University Publications offers the budding authors a platform to come forward and explore their writing potential. It has a strong editorial and production wing which ensures a work of academic distinction.

About ICEMSMCI-2024

The ICEMSMCI: RISE-2024's vision is to facilitate communication among scholars and practitioners engaged in an extensive spectrum of topics in sustainability, energy and health-based technologies. The platform explores various engineering domains that include sustainable and bio-inspired materials, advancements in energy engineering, green energy technologies, sustainable computing in healthcare, quantum computing, robotics and mechatronics, bio-sensors, bio-signals and medical imaging. It places a strong emphasis on sustainable development and encourages diverse methodologies to tackle field complexities. The evolution of sustainability refers to the transformation of significant socio-technical systems such as energy, manufacturing, water, mobility and health towards more sustainable modes of production and consumption. This is an interdisciplinary forum that covers economics, science and technology studies, engineering, computer science, geography, political science, management, sociology and history. Thus, to inculcate the recent sustainable developments, the event emphasis on engineering innovation and sustainability. The conference offers ample opportunities for networking, research dissemination and publication in esteemed international journals and proceedings.

Call for Paper

ICEMSMCI:RISE-2024 invites full length original research contributions from science, engineering professionals from industries, R&D organizations, academic institutions, government departments and research scholars from across the world. The manuscript template shall be found in the author guidelines section. The manuscript should contribute original research ideas, developmental ideas, analysis, findings, results, etc. The manuscript should not have been published in any journals/magazines or conference proceedings and not under review in any of them. Further the manuscript should contain the name of the corresponding author with e-mail id and affiliation of all authors.

Conference Topics

Track - 1: Sustainable Emerging Material

- Emerging materials for efficient sustainable energy and environmental devices
- Ferrous and Non-Ferrous Sustainable Materials
- Smart and Intelligent Materials
- · Polymer and ceramic materials
- Sustainable Biomaterials & Functional Materials
- Design, synthesis, characterization, and optimization of advanced sustainable materials
- Green materials
- Energy Materials
- Solar and fuel cells
- Shape memory alloys
- Self-Healing materials
- Piezoelectric materials
- Conductive polymers
- Photocatalytic materials
- Bio-based and Recycled Materials
- Energy-efficient materials
- Nanomaterials
- Biomimetic materials

Track - 3: Robotics & Mechatronics

- Sustainable Human-Robot Interaction
- Kinematics, Dynamics, and Control of Robotic Systems for Sustainable Applications
- Robotic tracking and processing
- Machine Learning and Artificial Intelligence for Robotics
- Bio-Mimetic and Bio-Inspired Robotic Systems
- Localization and SLAM
- Humanoid Robots
- Sustainable Robotics for Industry 4.0
- Warehouse Robotics and Automation
- Agricultural and Ocean Robotics
- Future of Robotics Technology
- Intelligent mechatronics, automation, control systems
- Robotic systems modeling, optimization, simulation and experiments
- Robotics and Biomechatronics
- AI in Robots and Automation

Track - 2: Sustainable Manufacturing Technologies & Industrial Engineering

- Methods for assessing sustainability in manufacturing
- Eco-friendly machining processes for sustainable applications
- Surface Engineering and Sustainable Coatings
- Sustainable Material Forming and joining Processes: Casting, welding, etc.
- Sustainable Bio-manufacturing Tissue Engineering
- Optimizing the design and advanced manufacturing processes for optimizing
- Energy and Material efficiency
- Additive manufacturing and 3D Printing towards zero waste manufacturing
- Additive manufacturing Modelling, Analysis, and Optimization of Manufacturing Processes
- Intelligent Manufacturing System, Time and Motion Study
- Real-time energy efficiency assessment of components and systems
- Ergonomics & Operation Management
- Conventional to Non-conventional Machining Processes
- Advanced Finishing Processes
- Material Forming & Joining Processes: Casting, Welding,
- Bio-Manufacturing and Tissue Engineering
- Tribology and Wear analysis
- Industry 4.0 & 5.0

Track - 4: AI, Signal Processing, Computer Vision & Data Analytics

- Biomedical Imaging & Signal Processing
- Compressive Sensing, Sparse Modelling
- Computational Imaging & AI
- AI in Computer Vision
- Deep Learning/Machine Learning for Signal Processing
- Image, Video & Multidimensional Signal Processing
- AI in Internet of Things
- Quantum Signal Processing

- Sensor Array & Multichannel SP
- Signal Processing for Robotics
- Data Analytics- Data Handling & Data Processing

Track - 5: Sustainability in Internet of Things (IoT), Network, & Sensor Technologies

- Wireless Sensor Communications
- Network Connectivity & Longevity
- Network Coverage
- Algorithms for Sensor Localization and Tracking
- Detection
- Directional and Smart Antennas for Sensor Networks
- Ubiquitous Wireless Connectivity
- AI in Sensor Networks
- Signal Processing and Computing
- Sensors and Control systems
- Storage for IoT applications
- Measurement and Sensors
- Data centers
- Sensor Array & Multichannel SP
- Sustainable Wireless Sensor Networks

Important Dates

Paper Submission Starts 01 March 2024
Paper Submission Closes 24 June 2024
Registration Open 01 March 2024
Registration Closes 30 June 2024
Conference Dates 18 - 19 July 2024

Peer Review Process

Each submitted manuscript will receive a unique Paper Id. The manuscripts will be initially screened to check for the conference scope and originality. All the submitted manuscripts will be sent for the technical peer-review process and the corresponding author will be notified of the outcome of the review process. If reviewers recommend further improvements manuscript, the manuscript will be sent back to the corresponding author and the revised version of the manuscript shall be submitted within fifteen days of the date of notification. The final decision on the manuscript will be announced after the third round of evaluation by the technical program committee.

Submit Full Length Paper

Authors are requested to proceed for full length paper submission online on the following weblink:

https://cmt3.research.microsoft.com/User/ Login?ReturnUrl=%2FICEMSMCI2024

Online Registeration

After receiving the paper acceptance mail, authors are requested to make online registeration using the following weblink: https://paym.chitkara.edu.in/international-conference-on-emerging-materials-2024/

Registration Fee Details

Description	Early Registration (Till 23 June, 2024)		Late Registration (After 23 June, 2024)	
	Indian (Rs.)	Foreigners (USD)	Indian (Rs.)	Foreigners (USD)
Regular Registration	9000	150	12000	200
Attendee	4000	100	5000	150

Note: Registration fees includes registration kit, lunch, tea & snacks, and accommodation including meal and publication charges.

Keynote Speakers



Professor Giuseppe Carbone

Chair of the IFToMM TC on Robotics and Mechatronics Editor in Chief of Robotica University of Calabria, Italy

Research Interests

Kinematic/Dynamic Analysis, Optimized Synthesis of Plane Mechanisms, Grip Mechanics and Grasping Cable Robotic Systems, Design, Implementation, Validation of Innovative Robotic and Mechatronic Systems

Professor Milos Djukic

Faculty of Mechanical Engineering, Department of Engineering Materials and Welding University of Belgrade, Serbia

Research Interests

Hydrogen Embrittlement Mechanisms in Metallic Materials, Corrosion, Microstructure, The Interaction between Materials and Hydrogen, Mechanical Properties and Microstructural Characterization



Professor Duc Truong Pham

Chance Professor of Engineering, Department of Mechanical Engineering, University of Birmingham, United Kingdom

Research Interests

Mechanical, Manufacturing, Computer and Systems Engineering

Dr. Sekhar Rakurty

Sr. Research Engineer, Research team lead, The M.K. Morse Company, Canton, Ohio Area, United States
Research Interests

Cutting tools, Metal Forming and Machining Researcher





Dr. Sanjeev Kumar

Principal Scientist, Biomedical Applications (BMA), Head -Electronic Design & Fab Facility (EDF), CSIR-CSIO (Research Lab under Ministry of Science & Technology - Government of India), Chandigarh, India

Research Interests

Bio-signal Processing, Soft Computing, Analog and Digital Circuit Design, Embedded Systems Design, Digital Signal Processing

Mr. Mukesh Singh

General Manager Business Excellence at LPS Bossard Pvt Ltd

Research Interests

Lean Six Sigma, Total Quality Management, Total Productive Maintenance, Quality Assurance



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