



JAIN
DEEMED-TO-BE UNIVERSITY

FACULTY OF
ENGINEERING
AND TECHNOLOGY



VIRTUAL JNANA CHILUME 2020

4th Annual Series of National Conference

on

November 25, 2020

About Jnana Chilume 2020

Faculty of Engineering and Technology, Jain (Deemed-to-be University) is exultant to announce **Jnana Chilume 2020**, the **4th** Annual Series of National Conference. It is a platform offering opportunities for **leading academic scientists, industrialists**, and **research scholars** to share their experiences and research achievements as well as to exchange their ideas on interdisciplinary domains.

Conference Theme

This year the theme of the conference is the application of **advanced robotics and autonomous systems integrated with every discipline of engineering and technology**. The participants will be able to experience and gain insight knowledge through brainstorming technical sessions and technical talks from various expertise. Presentation papers presented at the conference will be published in conference proceedings with ISBN.

- ▶ Role of Computing and Mathematics for Advancement in Industrial Robotics
- ▶ National Conference on Automation, Control and Communication
- ▶ Technical and Socio-Economic Transformations of Robotics and Automations in Food Technology and Chemical Sciences
- ▶ Recent Advances in Aerospace Engineering and Robotics
- ▶ Technical Transformations in Materials, Manufacturing, Design, Automation and Energy Engineering

Who can participate?

Academicians, Research scholars, R & D institutes, Industry delegates, Post-graduation and graduation students

School of Computer Science Engineering and Department of Mathematics

Presents

Theme: Role of Computing and Mathematics for Advancement in Industrial Robotics

About the Conference

Role of Computing and Mathematics for Advancement in Industrial Robotics not only promotes the research in computer science engineering and Mathematics but also brings together the finest research ideas by research scholars, academicians & industry professionals. The accepted papers presented in the conference will be published in conference proceedings with ISBN

- Topics:**
- ▶ Blockchain Technology
 - ▶ Internet of Things
 - ▶ Cloud Computing
 - ▶ Big data analytics
 - ▶ 5G Technology
 - ▶ Artificial Intelligence and Robotics
 - ▶ Image processing
 - ▶ Bioinformatics
 - ▶ Natural Language Processing
 - ▶ Applied Mathematics

Convener	Program Coordinators Jain (Deemed-to-be University)	Organizing Secretaries Jain (Deemed-to-be University)
Dr. Kuldeep Sharma Head - School of Computer Science and Engineering Faculty of Engineering and Technology Jain (Deemed-to-be University)	Prof. Madhumala R.B Department of Information Science and Engineering Dr. M. Ramesha Department of Mathematics Dr. C. Saravanan Department of Computer Science and Engineering	Dr. Rajapraveen Department of Computer Science and Engineering- Specialization Prof. Manjunath C R Department of Computer Science and Engineering

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School of Electrical and Electronics Engineering

Presents

Theme: National conference on Automation, Control and Communication

About the Conference

This convention aims to be one of the leading National conferences for presenting innovations and advancements in the fields of Automation, Control, and Communication. It also serves as a national forum for researchers, scientists, and academicians to explore and discuss the results related to the recent innovations and improvements in the respective fields.

- Topics:**
- ▶ Automation and Control Engineering
 - ▶ Renewable Energy
 - ▶ Industrial Drives
 - ▶ MEMS and Nano Technologies
 - ▶ Signal Processing
 - ▶ Remote Spatial Sensing, Navigation systems
 - ▶ Antennas/Radar Systems
 - ▶ Satellite and Space Communications
 - ▶ Nano Satellites, Geographic Information and Applications
 - ▶ Remote Sensing, Satellite/Space Communications-Based Applications
 - ▶ Machine learning and Artificial intelligence
 - ▶ Internet of Things(IOT)

Convener	Program Coordinators Jain (Deemed-to-be University)	Organizing Secretaries Jain (Deemed-to-be University)
Dr. N Kamala Head - Department of Robotics and Automation Faculty of Engineering and Technology Jain (Deemed to be University)	Dr. Hamsa G S Department of ECE Dr. Balamurugan M Department of EEE Prof. Kiran B Department of Robotics and Automation	Dr. Vinay Kumar S.B Department of ECE Dr. Sujith Kumar Department of EEE Dr. Manjunath K.N Department of Robotics and Automation

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Department of Food Technology, Department of Chemistry, Department of Humanities & Social Sciences

Presents

Theme: Technical and Socio-Economic Transformations of Robotics and Automations in Food Technology and Chemical Sciences

About the Conference

The national conference on Technical and Socio-economic Transformations of robotics and automation in food technology and chemical sciences is a forum to present cutting-edge research and technologies in the field of Food Processing, Automation, Materials, Medicinal Chemistry, Economics, Social Sciences and Sustainable Environmental Friendly Technologies. Academicians, researchers, industry professionals, students working in the field of Food Technology, Chemistry, and Economics will present, share and discuss their latest ideas and research in this forum.

- Topics:**
- ▶ Robotics and Automation in Food and Chemical Industries
 - ▶ Economical Impacts of Automations
 - ▶ Impact of Robotics and Artificial Intelligence on Society
 - ▶ Functional Foods and Nutraceuticals
 - ▶ Thermal and Non-Thermal Techniques
 - ▶ Novel Techniques in Packaging Effect of Artificial Intelligence and Robotics on Today's Economy
 - ▶ Food Product Design and Development
 - ▶ Sustainable Environmental Friendly Technologies
 - ▶ Materials and Chemistry
 - ▶ Artificial Intelligence and Robotics on the Workplace and their Impact
 - ▶ Organic and Medicinal Chemistry
 - ▶ Content and Language Integrated Learning/ Teaching

Convener	Program Coordinators Jain (Deemed-to-be University)	Organizing Secretaries Jain (Deemed-to-be University)
Dr. Benaka Prasad S. B Dean - Department of Basic Sciences and Humanities Faculty of Engineering and Technology Jain (Deemed-to-be University)	Dr. Subhashini S Department of Food Technology Dr. Devi Radhika Department of Chemistry Dr. Ahmadi Begum Head - Department of Humanities & Social Sciences	Dr. Humeera T Department of Food Technology Dr. Pandiarajan D Department of Chemistry Dr. Nandini Dutta Department of Food Technology

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School of Aerospace Engineering (IIAEM)

Presents

Theme: Recent Advances in Aerospace Engineering and Robotics

About the Conference

The Aerospace Engineering field is witnessing huge technology developments and intense research in the field of aircraft aerodynamics, structures, propulsion, avionics, and in other aerospace domains aimed at increasing the efficiency of modern aerospace vehicles, passenger comfort, and environment-friendly performance. Advanced robotics and autonomous systems technologies are increasingly being integrated into aerospace engineering research to develop innovative solutions in the field of UAVs and space missions. Academicians, researchers, industry professionals, students, and aerospace enthusiasts working in the field of Aerospace Engineering will present, share, and discuss their latest ideas to give impetus for further development of aerospace engineering technology and research in the country.

- Topics:**
- ▶ Green Aviation
 - ▶ Composites, Smart Structures
 - ▶ Aerodynamics and Computational Fluid Dynamics
 - ▶ Aircraft Structures, Finite Element analysis
 - ▶ Robotics in Aerospace Engineering
 - ▶ Drones and Unmanned Aerial Vehicles
 - ▶ Digital technologies in Aerospace Engineering
 - ▶ Avionics
 - ▶ Other Developments in Aerospace Engineering
 - ▶ Aerospace Propulsion

Convener	Program Coordinators Jain (Deemed-to-be University)	Organizing Secretaries Jain (Deemed-to-be University)
Dr. Antonio Davis Director-In charge IIAEM (School of Aerospace Engineering) Jain (Deemed-to-be University)	Dr. Allamaprabhu CY IIAEM – Jain (Deemed-to-be University) Prof. Giri Pallavi IIAEM – Jain (Deemed-to-be University)	Dr. Sundeep Rao IIAEM – Jain (Deemed-to-be University)

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School of Mechanical Engineering, School of Civil Engineering and Department of Physics

Presents

Theme: Technical Transformations in Materials, Manufacturing, Design, Automation and Energy Engineering

About the Conference

The national conference on Technical Transformations in Materials, Manufacturing, Design, Automation, and Energy Engineering, is a forum to present cutting-edge research and technologies in the field of materials, manufacturing, design, automation, and energy engineering with an emphasis on energy management/smart grid systems in a building. This conference is a platform for bringing together young scientists, leading academicians, research scholars, and industry professionals to share their experiences and research achievements as well as to exchange their ideas on all aspects of Materials, Manufacturing, Design, Automation, and Energy Engineering.

- Topics:**
- ▶ Hybrid and Composite Materials
 - ▶ Energy Storage Concepts
 - ▶ Surface Coatings and Thin Films
 - ▶ Material Processing Technologies
 - ▶ Emerging Construction Technologies and Sustainability
 - ▶ Solar/Wind Energy and Conversion Technologies
 - ▶ Fire Safety and Earthquake Resistant Buildings
 - ▶ Renewable Energy Systems in Smart Cities
 - ▶ Green Buildings
 - ▶ X-ray Crystallography and Docking Studies
 - ▶ Nanotechnology and Materials
 - ▶ Robotics & Automation in the Field of Materials, Manufacturing, Design and Energy Engineering

Convener	Program Coordinators Jain (Deemed-to-be University)	Organizing Secretaries Jain (Deemed-to-be University)
Dr. K.S. Kiran Professor & Head Department of Physics Faculty of Engineering and Technology Jain (Deemed-to-be University)	Dr. Ranganathan S Professor & Head Department of Metallurgy Dr. Aravindan M K Head Department of Automobile Engineering	Dr. N. Beemkumar Department of Mechanical Engineering Dr. C. P. Ramesh Department of Civil Engineering Dr. Naveen S Department of Physics

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