



# INTERNATIONAL CONFERENCE

On

## Innovative Research in “Mechanical, Material, Industrial, Automotive, Aerospace and Nano-Technology” (MIANT-2019)

Organized by

“**Krishi Sanskriti**”

On

**27<sup>th</sup> April 2019**

Venue:

**Jawaharlal Nehru University, New Delhi**

### **Call for Papers and Conference Themes**

The Organizers cordially invites Abstracts and Full length Research Papers from all over the world to participate in the International Conference on **Innovative Research in “Mechanical, Material, Industrial, Automotive, Aerospace and Nano-Technology” (MIANT-2019)** on the following scientific areas for presentations and discussions thereafter.

The field of Mechanical, Material, Industrial, Automotive, Aerospace and Nano-Technology embraces a broad spectrum of technical activities including several dimensions of engineering along with the classical techniques of work methods, production and quality control as well as safety aspects. It also incorporates the fields of human factors, operational research, manufacturing systems as well as management systems. **MIANT-2018** is the premier forum for communication of new frontiers in the fields of Mechanical, Material, Manufacturing, Industrial, Process, Automotive, Automobile, Aeronautical Engineering and Nano-Technology that will focus on various techniques and applications. The conference covers most of the theoretical and experimental topics and also encourages the submission of critical review articles covering advances in recent research of such fields.

The conference aims at providing an opportunity for exchange of ideas and dissemination of knowledge among Academia, Industry, Research Scholars, Scientists, Entrepreneurs and N.G.O for sharing of knowledge followed by discussion related to frontiers of mechanical, automobile and aerospace engineering. Contributions are invited from prospective authors from related areas. All contribution should be of high quality, Original and not published elsewhere or submitted for publication. During the review period, Papers will be reviewed by eminent scholars in the respective areas. **All selected papers will be published in International Journal having ISSN No. in print version as well as online version and that will be likely to be released on the day of conference.**

**Topics of interest for submission include, but are not limited to:**

#### **Machine Design**

- Actuator Systems
- Coatings and Surface Modification
- Contact Mechanics
- Cutting/ Forming/ Grinding/ Polishing
- Design for Manufacturability (DFM)

- Friction and Wear Mechanism
- Machine Design/ Machine Elements

#### **Production and Mechanical Engineering**

- Acoustics and Noise Control
- Advanced and Digital Manufacturing
- Advanced Materials
- Applied Mechanics
- Ballistics
- Bioengineering and Biomedical Engineering
- Biomechanics
- Composite and Smart Materials
- Compressible Flows
- Computational Mechanics and Techniques
- Dynamics and Vibration
- Engineering Systems Design and Analysis
- Fluid Mechanics and Machinery
- Fluids Engineering
- Fuels and Combustion
- Heat and Mass Transfer
- Instrumentation and Control
- Internal Combustion Engines
- Manufacturing and Production Processes
- Mechanical Power Engineering
- Multibody Dynamics
- Naval Architecture and Engineering of Marine Systems
- New and Renewable Energy
- Noise and Vibration
- Nonlinear Dynamics
- Plasticity Mechanics
- Pollution and Environmental Engineering
- Precision mechanics, mechatronics
- Production Technology
- Quality assurance and environment protection
- Resistance and Propulsion
- Structural Dynamics

#### **Manufacturing Processes and Systems**

- Surface Engineering/Coatings
- Materials Forming and Machining
- Powder Metallurgy
- Severe Plastic Deformation
- Tribology in Manufacturing Processes
- Theory and Application of Friction and Wear
- Casting and solidification

- Microwave Processing of Materials
- Waste-to-Energy, Waste Management and Waste Disposal
- Thermal Engineering Theory and Applications
- Rapid Prototyping, Manufacturing, and Tooling
- E-manufacturing, ERP, and Integrated Factory
- Sequencing, and Scheduling
- Virtual Manufacturing, and Simulation
- Operations, and Production Management
- Precision Engineering, and Concurrent Engineering
- DSS, ES and AI in Manufacturing
- Engineering Optimization
- Circuit analysis
- Analog and digital circuits
- Circuits and Systems
- High-frequency electronic technology, electronic measurement technology
- Microcomputer principle, single chip principle and application
- Integrated circuit design and systems integration
- Research and Design of Aerospace Electronic Information System
- Electromagnetic field and microwave technology
- Vacuum electronic technology
- Microelectronics manufacturing engineering
- Avionics monitoring and maintenance

#### **Automation and Equipment Manufacturing**

- Advanced NC Techniques and Equipment
- Embedded System
- Industrial Robotics and Automation
- Integrated Circuit Technology
- Intelligent automation
- laboratory and service automation
- Machine Vision
- Measure Control Technologies and Intelligent Systems
- Mechanical Control and Information Processing Technology
- Micro-Electronic Packaging Technology and Equipment
- Nano-scale automation and assembly
- Process automation
- Sensor Technology
- Transmission and Control of Fluid
- Control theory and control engineering
- Automatic control theory and foundation
- Detection guidance and control technology
- Measurement and control technology and instruments
- Automation system engineering
- Pattern recognition and intelligent system
- Automation equipment and systems
- Intelligent control technology and application
- Industrial Process Control and Simulation
- Application of automation control technology in the aerospace field
- Monitoring systems

#### **Engineering and Automation**

- Advances in Metal Forming
- Automation in life sciences and healthcare

- Advances in Quality Control in Multistage Manufacturing Systems
- Bottom-up Nano manufacturing
- Computer-Aided Design and Manufacturing
- Design and Operations of Manufacturing Systems for Responsiveness
- Emerging Technologies in Design and Manufacturing
- Flexible and Distributed Manufacturing Systems
- Fracture Reliability of Fabricated Materials
- Hybrid Macro/Meso/Micro Manufacturing Processes
- Intelligent Systems in Machine Design and Production
- Micro-Manufacturing and Fabrication of Sensors
- Thermally-Enhanced Manufacturing

#### **Aerospace Engineering (Aeronautical and Astronautical)**

- Advanced In-Space Propulsion & Power Concepts
- Aero elasticity and Space faring
- Aeroacoustics
- Aerospace Defense Systems
- Aerospace Propulsion Systems
- Aerospace Structures and Materials
- Affordable launch systems and developing countries
- Aircraft Design and Technology
- Aircraft Fuel System, Guidance and Control
- Atmospheric Flight Dynamics
- Avionics Engineering
- CFD and FEA
- Communication Systems and Technologies
- Computational Fluids Dynamics
- Design and construction of space systems, simulation and testing
- Developments in global positioning, interoperability, new applications, vehicle control
- Developments in new space communication techniques, higher frequencies and bandwidths
- Energy from Space
- Flight and Space Mechanics
- Flight Dynamics, Control and Performance
- High Frequency Gravity Wave Generation Detection,
- Industrial Aerodynamics
- Liquid Propellant Rockets
- Lunar Lander Technologies and Design
- Multidisciplinary design Optimization
- Navigation, Guidance and Control
- Near- Earth Space Physics
- Neuro-Fuzzy Control
- Satellite Technologies
- Scientific applications, near Earth space, deep space, microgravity sciences
- Small satellites, micro, nano and pico satellites, cubesat developments
- Space law, space medicine, and social, educational and other benefits of space
- Space Mission and Spacecraft Subsystems
- Space robotics
- Space technology utilization for development and societal well being
- Space weather



- Spacecraft Communication Technique
- Spacecraft Design and Technology
- Spacecraft Software Development and Modeling
- Turbomachinery
- Unmanned Air Vehicle
- Wind Tunnel Design and Testing
- Aerospace Propulsion Theory and Engineering
- Aircraft design
- Flight mechanics and control
- Aerospace manufacturing engineering
- Aircraft Control and Information Engineering
- Rocket theory and design
- Flight driving and control technology
- Emerging avionics technology
- Man-machine and environmental engineering
- Airport operation and management
- Transportation and management engineering

### **Nanotechnology: Fundamentals and Applications**

- Biomimetics
- Computational nanoscience and nanotechnology
- Engineering of Biointerfaces
- Layered and composite nanostructures
- Low-dimensional systems
- Mechanical Properties and Nanomechanics
- MEMS and Nano Technology
- Modeling and Simulation
- Multifunctional nanomaterials
- Nano manufacturing Processes and Systems
- Nanobiomechanics
- Nanobiotechnologies
- Nanocatalysis
- Nanoelectronics and information technology
- Nano-Graphene
- Nanomaterial Engineering
- Nanomaterials, Nanodevices: Fabrication, Characterization and Application
- Nanomedical Applications: Drug Delivery, and Tissue Engineering
- Nanopatterning
- Applications of Nanotechnology in Agriculture, Coating, Education, Energy, Environment, Polymer etc.
- Nanotechnology, Products and Markets
- Societal aspects of Nanotechnology: Ethics, Risk Assessment, Standardization
- Nanomaterials including Nanoparticles, Nanocrystals , Nano-porous materials
- Nanotribology, Nanocomposites
- Nanoelectronics, Nano-Magnetics
- Nanobiotechnology , Nanomedicine
- Nanotubes/Nanowires/Quantum Dots
- NEMs, MEMs, Nano-Fluidics
- Nano-Sensors, Nano-robotics
- Nano-Fabrication, Nano-Lithography
- Nanotechnology for Energy
- (Fuel cell, Solar cell,Hydrogen storage)
- Other research areas

- (Crystal Growth, Thin films, Ultrasonics, Solid State Ionics)

### **Nanomaterials, Hybrid Materials and Living Materials:**

- Nanostructures and Nanoparticles
- Nanotubes and Ceramics
- Membranes and Films
- Supramolecular systems
- Co-ordination polymers
- Zeolites and MOFs
- Mesoporous materials
- Hierarchically structured materials
- Carbons and Natural Materials
- Bioinspired and biomimetic materials
- Biomineralisation and biotemplating
- Bio-integrated materials
- Biocomposites and Organometallics
- Green materials for construction
- Inorganic switches
- Additive manufacturing Applications
- Bio-based composites
- Biomimetic composites
- Ceramic matrix composite
- Concrete and cementitious composites
- Damage and fracture
- Durability and ageing
- Experimental techniques
- Fibers and matrices
- FRP reinforced concrete
- Health monitoring
- Hybrid composites
- Infrastructure
- Interfaces and interphases
- Interlaminar reinforcements
- Joint and bearing behaviour
- Life cycle analysis and sustainability
- Low cost technologies
- Mechanical and physical properties
- Metal matrix composites
- Multifunctional composites
- Multiscale modelling
- Nanocomposites
- Nanotechnologies
- NDE technologies
- Polymer matrix composites
- Probabilistic approaches and design
- Processing and manufacturing technologies
- Recycling
- Repair technologies
- Sandwich technologies
- Standardisation
- Structural design
- Testing and characterization
- Textile composites
- Wood and paper

### **Sensors and Sensor Systems**

- Sensor principle and application

- Sensor and detection technology
- Novel sensor and material development
- Sensor technology and features
- Sensor manufacturing and new technology applications
- Sensor technology and production processing
- Wireless sensor network technology and applications

### Important Dates

#### Last date of Abstract Submission:

**22<sup>nd</sup> April 2019.**

**E-mail: [newdelhi.conference@gmail.com](mailto:newdelhi.conference@gmail.com)**

#### Last date of Full Length Research Paper & Copyright

#### Form submission:

**23<sup>rd</sup> April 2019.**

**E-mail: [newdelhi.conference@gmail.com](mailto:newdelhi.conference@gmail.com)**

#### Last date of Submission of Registration Details:

**24<sup>th</sup> April 2019**

### Accommodation

Free one day Accommodation will be available to the limited no. of out station non N.C.R. Delegates at JNU guest house and nearby other guest houses/hotels around conference venue.

The Tariff rate for next day and subsequent day accommodation is as follows: Double-bed Room @ Rs.900/- per person (Indian non N.C.R. delegates) and 35 USD for Foreign delegates on sharing basis per day (check out time noon to noon).

To and fro transportation facility from guest house to the conference Venue will be provided by the organizer.

**NOTE:** In case Research article is accepted by the editorial committee it will be published and released on the day of conference in case the delegates are not able to physically present their paper due to some or other reason his/her research paper will be published (in absentia) and published copy along with certificate will be dispatched to his/her correspondence address by post just after the conference at no extra cost.

### Registration Charges:

Categories	Indian Delegates	Rest of the countries
Academic faculty/Industrial Delegates	3000 INR	250 USD
Research Scholars(Ph.D.)	2500 INR	200 USD
Students(UG and PG)	2000 INR	150 USD
Printing of Additional Pages as chapter in edited book/proceeding /in Journals	400 INR	20 USD
Listener / Accompanying Member (only Indian Delegates)	1000 INR	**
Print copy of research article as chapter in edited book/ proceeding/ Journal & Certificate (additional copy) for Co-Authors (if required in absentia)	700 INR	30 USD
Only Print copy of research article as chapter in edited book/ proceeding /Journal (additional copy) for Co-Authors (if required in absentia)	400 INR	25 USD
Only Certificates (Co-Authors in absentia)	400 INR	20 USD
Additional Research paper for same authors	1000 INR	35 USD

**\*\*Foreign Participants as listener are not allowed, only authors from foreign country/countries will be allowed in this conference.**

**All communication should be by e-mail/online only (no hard copy is required to be posted).**

### Mandatory steps to be followed:-

1. Abstract should be maximum **300 words**, full length research paper should be maximum **6 pages**.
2. In case of multi authored research paper, at least one Registration is mandatory.
3. In case other author/co-author wish to physically attend the conference they need to pay full Registration fees individually, separate Journal & Certificate along with the conference kit will be issued to them. Co- Authors are requested to fill & submit separate Registration forms in case they are physically attending the conference.
4. Charges for extra copy of Journal/ Certificate for other Co-author (if required) should be paid along with preliminary Registration by the corresponding author.
5. Co-Authors will not be considered as accompanying person. Listeners are not entitled for free accommodation (it will be on paid basis). However they will be issued conference kit and participation certificate.

**All Selected papers will be available online after 15 to 20 days of conference datē over.**

### Registration

The participants are requested to register by sending the duly filled Registration form through e-mail along with their research paper and registration fees (**through RTGS/ Wire Transfer or Online Transfer**).

Bank Details mentioned below for **RTGS/ Wire Transfer or Online Transfer:**

**Beneficiary Name :** Krishi Sanskriti  
**Bank Name :** Canara Bank  
**Bank Address :** Jeet Singh Marg, New Delhi  
**Account No. :** 1484101026988  
**Account Type :** Savings  
**IFSC Code :** CNRB0001484  
**Swift Code- :** CNRBINBBID

\*\*\*\*\*

For further information and Latest Updates, Write us at  
**“[newdelhi.conference@gmail.com](mailto:newdelhi.conference@gmail.com)”**

Or

visit our Website: <http://krishisanskriti.org/miant18.html>

**Dr. Vikas Rai,**  
Organizing Secretary

**Dr. B.B. Singh,**  
Conference Chair

Contact No. : +91-8527006560