



## INTERNATIONAL CONFERENCE

On

### Multidisciplinary Research in “Mechanical, Electrical, Electronics, Civil, Engineering, Computer Science and Information Technology” (MECIT-2018)

Organized by

“Krishi Sanskrit”

On

9<sup>th</sup> September 2018

Venue:

Jawaharlal Nehru University,  
New Delhi-110067

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#### Call for Papers and Conference Themes

The Organizers cordially invites Abstracts and Full Research Papers for oral/poster presentation from all over the world to participate/present and publish their research papers in the **International Conference on Multidisciplinary Research in “Mechanical, Electrical, Electronics, Civil, Engineering, Computer Science and Information Technology”(MECIT-2018)** on the following scientific areas for presentations and discussions thereafter.

These engineering subjects are emerging and promising discipline in shaping future research and development activities in both Academia and Industry. 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 sustainable growth of the society. 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:**

#### **Track No. I: Mechanical, Aeronautical and Automobile Engineering**

##### **Mechanical Properties of Materials**

- Electrochemistry
- Electronic Materials
- Electronic, Optical, and Magnetic Properties
- Materials for Energy and Environmental Applications
- Materials Theory and Processing
- Organic Polymer Materials
- Phase Transformations

##### **New Materials and Advanced Materials**

- Iron and Steel
- Composites
- Environmental Friendly Materials
- Biomaterials
- Polymeric Materials

##### **Mechatronics**

- Mechatronic Education

##### **Machine Design**

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

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

- Applied Mechanics
- Biomechanics
- Composite and Smart Materials
- Dynamics and Vibration
- Fluid Mechanics and Machinery
- Fluids Engineering

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

- 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

##### **Manufacturing Engineering**

- Design of Machines and its Applications
- Engineering Design Methodology and Design Models
- Magnetic Storage System

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

- Embedded System
- Industrial Robotics and Automation
- Integrated Circuit Technology
- Intelligent automation

##### **Engineering and Automation**

- Automation in life sciences and healthcare
- Advances in Quality Control in Multistage Manufacturing Systems

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

- 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

- 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
- Space robotics
- Space weather
- Spacecraft Communication Technique
- Spacecraft Design and Technology
- Spacecraft Software Development and Modeling
- Turbomachinery
- Unmanned Air Vehicle

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

- 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
- Nanoelectronics and information technology

#### **Nanomaterials, Functional Porous Materials, Co-ordination Networks, Bio-inspired Nanomaterials, Hybrid Materials and Living Materials:**

- Nanostructures and Nanoparticles
- Biomineralisation and biotemplating
- Bio-integrated materials
- Biocomposites and Organometallics
- Green materials for construction
- Inorganic switches

#### **Track No. II: Civil, Architecture and Environmental Engineering**

##### **Architecture and Civil Engineering**

- Buildings, urban life and environment
- City Planning and daily life
- Creativity in history of art and architecture
- Designing Inclusive Environments
- Interior design and home
- Modern architecture as a new way of producing space
- Multidisciplinary Studies on architecture
- Structural creativity, technological progress
- Sustainable design, construction and development
- Constructional Safety
- Disaster Recovery
- Interlinking of Indian Rivers -Challenges and Prospects
- Pre-Stressed concrete Box girders
- Safety In Nuclear Power Plants
- Seismic Analysis Of Structures (Bridges)
- Seismic Retrofitting In Buildings
- Smart Materials

- Smart Structures
- Water Supply And Sanitation
- Advance Construction Techniques
- Advanced Reinforced Concrete
- Advances in composite materials
- Geo technical Engineering
- Geosynthetics
- Intelligent Transportation Systems
- Nanomaterial
- Passive Solar Buildings
- Prestressed concrete design advances
- Recycled Aggregate Concrete
- Self Compacting Concrete
- Silica Fume Concrete

##### **Architecture and Urban Planning**

- Architectural Engineering
- Bio-Architecture and Cities
- Ecological Architecture
- Solar architecture of a building

##### **Civil, Structural and Material Engineering**

- Admixture Incompatibility in fresh concrete
- Bamboo as a Building Material
- Bridge and Tunnel Engineering
- Carbon fiber
- Chloride Corrosion in Concrete Beams
- Civil Engineering Materials
- Design of hydraulic structures such as weirs, reservoirs, dams
- Finite element model for double composite beam
- High-rise Structure and Large-span Structure
- Highway Design and Safety
- Hydraulic and Hydro-Power Engineering

##### **Materials Science and Engineering**

- New Structure and Special Structure
- Non-Destructive Testing
- Post tensioned concrete beams
- Road and railway engineering
- Seismicity and Construction
- Smart Materials and Structures
- Structural Analysis and Design
- Thermal Expansion of Concrete
- Urban Transportation Planning
- Water Supply and Drainage Engineering

##### **Water Resources and Environmental Management:**

- Water engineering and modeling
- Irrigation
- Land and water conservation

##### **Transportation and Urban Infrastructure:**

- Road structure and pavement
- Mass transportation system
- Airport design and construction

##### **Geotechnical Engineering:**

Natural disaster mitigation and management

Foundation engineering

• Post earthquake Infrastructure rehabilitation

### **Track No. III: Electrical and Electronics Engineering**

#### **Electrical engineering**

Electrical and electronic materials

Power management system

Transmission lines

#### **Power & Control Systems**

Circuits and Electronics

Control Science and Control Engineering

Converter/Inverter Topologies

Electric Drivers and Application

Electrical Machinery, Motor Drives and Power Electronics

Embedded Systems and Software

EMC standardization

Energy storages

Evolutionary Algorithm application to Power System

Fuel cell

Grid interfaces

Hybrid energy systems

Industrial power systems

Micro-electromechanical systems (MEMS)

Power Distribution

Power Electronics Controllers for Power Systems

Power Electronics in Transportation

Power Generation

Power integrated circuits (PIC)

#### **Power Generation – Conventional and Renewable**

Thermal power technologies and applications

Safe nuclear energy generation and utilization

Bio-energy technologies, process and utilization

New technologies and design for energy efficiency

Wind, Solar and Renewable Energy Sources

#### **Power System Management**

Power system management technologies

Integrated substation automation technologies

#### **Power Transmission and Distribution**

Ultra High Voltage (UHV) technologies

HVDC and flexible AC transmission system

Over-voltage, lightning protection and grounding

Plasma physics and the pulsed power technology

#### **Photonics, Optoelectronics and Quantum Electronics**

3D Semiconductor Device Technology

Advanced Electromagnetics

Digital Electronics

Digital Signal and Image Processing etc

Fiber-optic sensor and networks

Industrial Automation and Control

Instrumentation engineering

Microwave Circuits - Systems and Applications

Power Electronics and Power Drives

Radio Engineering

Semiconductor and electro-optic devices

Simulation and Modeling

White LED and related technologies

#### **Green Electronics**

Organic And Sustainable Electronics

Electronics In Renewable Energy

#### **Bio-Electronics**

Biodegradable And Biocompatible Electronics Devices

Neuroprosthetics

#### **Smart Electronics**

Printed Electronics

Consumer Electronics

#### **Smart Grid Technologies**

• Concept and structural framing

Dynamic optimization and control

Smart appliances and consumer devices

Integrated communication technology

#### **Telecommunication Engineering**

Communication Electronics and Microwave

Antenna and Wave Propagation

Telematics Services, Security Network

#### **Advanced Communication**

e-Governance, e-Government, e-Commerce, e-Learning,

Network Management, Operation and Maintenance

### **Track No. IV: Computer Science and Information Technology**

#### **Software Engineering**

Component Based Software Engineering,

#### **Mobile Learning**

Augmented Learning,

Virtual Learning ,

Blended learning,

Cloud Computing for E-Learning,

E-Learning Portals,

Innovative Teaching and Learning Technologies,

#### **Multimedia Processing**

3D displays, Imaging and 3D audio,

Medical Image Processing,

Multimedia security,

Multimedia systems, applications and services,

#### **Information Technology**

Artificial Intelligence and Machine Learning,

Computational Intelligence,

E-Learning & E-Business,

Fuzzy, ANN & Expert Approaches,

Information systems & Applications,

- Management Information Systems,
- Network Management and services,
- Next generation network,
- Systems & Software Engineering,
- Web Engineering,

### **Animation**

- Animation Languages,
- Behavioral Animation,
- Character Animation,
- Computer Animation,

### **Computer Graphics and Modelling**

- Geometric Algorithms,
- Surface Modeling,

### **Human-Computer Interaction**

- Collaborative System Design,
- Graphical Interfaces,
- Web Designing,

### **Image and Image Processing**

- Digital Photography,
- Image Acquisition Techniques,
- Image Data Management,
- Internet Imaging,
- Medical Imaging,
- Wireless Imaging,

### **Databases**

- Data Mining and Warehousing,
- Database and Information Systems,
- Distributed Databases,
- Text Mining,
- Web Databases and Filtering,

### **Algorithms**

- Fault Tolerant Algorithms,
- Optimization Algorithms,
- Fuzzy logic based system,
- High Performance Computing,
- Nano Computing,

### **Security Management**

- Cryptography
- Cyber Crimes,

### **Applications**

- 3G/4G Network Evolutions,
- Agent Computing & Multi-Agents Systems,
- CDMA/GSM Communication Protocols,
- Computer Architecture and Embedded Systems,
- Grid Computing & Applications,
- Hardware and Software Applications,
- High Performance Network Protocol,
- Intranet/Internet/Extranet,
- Reconfigurable Computing Systems ,

- RFID Networks and Protocols,
- Telecommunication Networks and Technologies,

### **Communications**

- Ad hoc and sensor networking,
- Cognitive science,
- Optical networks and systems,
- Wireless communications and networking

### **Abstract Submission:**

Abstracts not exceeding 300 words on any of the aforesaid themes should be sent to the Organizing Secretary through email at [info.internationalconference@gmail.com](mailto:info.internationalconference@gmail.com) on or before **4<sup>th</sup> September 2018**.

### **Submission of Full Length Research Paper & Copyright Form**

Full length research paper, in word format double column maximum in 6 pages and copyright form should be submitted together as separate attachment latest by **5<sup>th</sup> September 2018**, through email at [info.internationalconference@gmail.com](mailto:info.internationalconference@gmail.com)

### **Submission of Registration Details:**

Submission of Registration Form/Details: **6<sup>th</sup> September 2018**. Registration process can be initiated after receiving acceptance letter of full paper.

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

### **Mandatory steps to be followed:-**

1. In case of multi authored research paper, at least one full Registration is mandatory.
2. 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.
3. Charges for extra copy of Journal/ Certificate for other Co-author (if required) should be paid along with preliminary

Registration by the corresponding author.

4. 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.

5. All Selected papers will be available online after 15 to 20 days of conference date over, in order to download the papers the authors need to go in the publication section of Krishi Sanskriti website.

**Bank Details:**

Bank Details mentioned below for RTGS/ Wired Transfer or Online Transfer:

**Beneficiary Name : Krishi Sanskriti**  
**Bank Name : Canara Bank**  
**Bank Address : Jeet Singh Marg, New Delhi**  
**Account No. : 1484101026988**  
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**IFSC Code : CNRB0001484**  
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**Registration Charges:**

| <b>Categories</b>  | <b>Indian Delegates</b> | <b>SAARC/ African Country Delegates</b> | <b>Rest of the countries</b> |
|--|-------------------------|---|------------------------------|
| Academic faculty/Industrial Delegates  | 3000 INR                | 125 USD                                 | 250 USD                      |
| Research Scholars(Ph.D) / NGO Representative   | 2500 INR                | 100 USD                                 | 200 USD                      |
| Students(UG and PG)  | 2000 INR                | 75USD                                   | 150 USD                      |
| Printing of Additional Pages as chapter in edited book/proceeding /in Journals   | 300 INR                 | 15 USD                                  | 20 USD                       |
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| Additional Research paper for same authors   | 1000 INR                | 25 USD                                  | 35 USD                       |

**Imp.: While submitting abstract, full length research paper and registration details participants must mention track number of the conference subtitle (like Track No. I or II or III or IV) on the top of the page before title of your research paper.**

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**For further information and Latest Updates, Write us at**

**“[info.internationalconference@gmail.com](mailto:info.internationalconference@gmail.com)”**

**Or**

**visit our Website**

**<http://krishisanskriti.org/mecit8820.html>**

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