



# INTERNATIONAL CONFERENCE

On

**Innovative Trends in “Mechanical, Electrical, Electronics, Civil, Engineering, Computer Science and Information Technology”**

**(MECIT-2018)**

*Organized by*

**“Krishi Sanskriti Publications”**

On

**11<sup>th</sup> March 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 Innovative Trends 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**

- Advanced Characterization
- Computational Materials Science
- 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**

- Non-ferrous Metal material
- Iron and Steel
- Composites
- Environmental Friendly Materials
- Biomaterials
- Polymeric Materials

#### **Mechatronics**

- Design, Modeling and Simulation of Mechatronic systems
- Mechatronic Education

#### **Machine Design**

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

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

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

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

- 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

#### **Manufacturing Engineering**

- Advanced Design, Production Processes and Devices
- Design of Machines and its Applications
- Engineering Design Methodology and Design Models
- Magnetic Storage System

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

- Advanced NC Techniques and Equipment
- Embedded System
- Industrial Robotics and Automation
- Integrated Circuit Technology
- Intelligent automation

#### **Engineering and Automation**

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

#### **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
- Flight Dynamics, Control and Performance
- High Frequency Gravity Wave Generation Detection,
- Industrial Aerodynamics
- Liquid Propellant Rockets
- Lunar Lander Technologies and Design
- Multidiciplinary design Optimization
- Navigation, Guidance and Control
- 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

### **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

### **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**

- Artistic creativity and models of creative process
- 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 Design and Theories
- Architectural Engineering
- Bio-Architecture and Cities
- Ecological Architecture
- Solar architecture of a building

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

- Activated Flyash as a Binder in Pavement
- 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 constructive Techniques and Systems
- 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:**

- Subsurface and Groundwater Flow
- Water engineering and modeling
- Irrigation
- Land and water conservation

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

- Highway and traffic engineering
- Road structure and pavement
- Mass transportation system
- Airport design and construction

### **Geotechnical Engineering:**

- Landslide prevention
- Natural disaster mitigation and management
- Foundation engineering
- Post earthquake Infrastructure rehabilitation

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

### **Electrical engineering**

- Automation, control and instrumentation
- Electrical and electronic materials
- Power management system
- Transmission lines

### **Power & Control Systems**

- Advanced Power Semiconductors
- Analysis of Power Quality and System Stability
- 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 System Design

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

- Hydropower technologies and applications
- 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
- Electronics & Nano Electronics
- 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, e-Health
- 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,
- Advanced use of multimedia,
- 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 **5<sup>th</sup> March, 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 **6<sup>th</sup> March, 2018** through email at [info.internationalconference@gmail.com](mailto:info.internationalconference@gmail.com)

### Submission of Registration Details:

Submission of Registration Form/Details: **7<sup>th</sup> March, 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

### **Registration Charges:**

Categories	Indian Delegates	SAARC/African Country Delegates	Rest of the countries
Academic faculty/Industrial Delegates	4000 INR	125 USD	250 USD
Research Scholars(Ph.D) / NGO Representative	3500 INR	100 USD	200 USD
Students(B. Arch. /B.Tech / M. Arch. /M.Tech /M.Scetc)	2500 INR	75 USD	150 USD
Printing of Additional Page in Books /Journals	300 INR	15 USD	20 USD
Listener / Accompanying Member	1500 INR	70 USD	100 USD
Book/Journal & Certificate (additional copy) for Co-Authors in absentia (if required)	700 INR	20 USD	30 USD
Only Books/Journal (additional copy) for Co-Authors in absentia (if required)	500 INR	15 USD	25 USD
Only Certificates (Co-Authors in absentia)	300 INR	10 USD	20 USD
Additional Research paper for same authors	1500 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/mecit2018.html>**

**Dr. G.C. Mishra,  
Organizing Secretary**

**Dr. Vikas Rai,  
Conference Chair**

**Prof. M. R. Tripathy  
Convener**

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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 Publications**

**Bank Name : Canara Bank**

**Bank Address : Jit Singh Marg, New Delhi**

**Account No. : 1484201003088**

**Account Type : Current**

**IFSC Code : CNRB0001484**

**Swift Code- : CNRBINBBID**