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Conference website:

<http://iciccsems.com/>

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# ONLINE INTERNATIONAL CONFERENCE ON



## Intelligent Control and Computation for Smart Energy and Mechatronic Systems (ICCSEMS-2020)

### 25-26 September 2020

Organised  
by  
Department of ECE, CSE and  
Information Technology

 **JSS Academy of Technical Education**  
C-20/1, Sector-62, Noida-201301  
Phone: +91-120-2400115  
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## About JSS Mahavidyapeetha

JSS Mahavidyapeetha was established in the year 1954. The JSS Mahavidyapeetha has been described by many eminent educationists as greater than a University, because under its aegis a child can begin its education in the kindergarten and proceed to earn a degree as well as a doctorate in several branches of learning. Simultaneously the Mahavidyapeetha has not neglected to strengthen the roots of our ancient knowledge, wisdom and culture and their application in the day-to-day life. Sanskrit Pathshalas, Yoga Kendras, Spiritual Retreats, Gurukulas, Art and Cultural forums are doing this work. Today the Mahavidyapeetha has grown into a center of learning that guides more than 350 institutions spread throughout Karnataka, neighboring Tamil Nadu, Uttar Pradesh and New Delhi; and outside India including USA, Mauritius and Dubai. Every year thousands of aspirants of education and knowledge join the fold of the Mahavidyapeetha. Distinguished national leaders including the first President of India, Dr. Babu Rajendra Prasad, the former President Dr. A. P. J. Abdul Kalam, Former Prime Minister Sri Atal Behari Vajpayee have visited JSS and paid rich tribute to services rendered by the Mahavidyapeetha.

## About JSS Academy of Technical Education, Noida

JSS Academy of Technical Education, Noida (JSSATEN) is one of the leading Technical Institutions in Delhi NCR in the state of Uttar Pradesh. Established in the year 1998 by JSS Mahavidyapeetha, Mysuru, the Institution has set benchmarks every year, and grown into an Institution of Excellence in Technical Education. The Institution has MOUs with Colorado Heights University, Denver, USA for student exchange program. IBM Centre of Excellence, Texas Instruments Centre of Excellence, Nokia Mobile Innovation Labs, e-Yantra Embedded & Robotics Lab are an initiative of IIT Bombay funded by MHRD under NMEICT, PLMCC, Schneider Electric Substation Automation Labs, Emerson Innovation Center and Centre for Innovation & Design are additional facilities for the students to innovate new ideas. JSSATEN is proud to mention that it has created necessary manpower and infrastructure to implement Outcome Based Education from the year 2014-15. Today, JSSATEN has total student strength of over 4000, who are mentored by more than 250 Faculty Members. The Campus has the finest accommodation for girls and boys.

Recently, the Institute has been engaged in various Government of India flagship programmes such as Digital India Initiatives Promotion Schemes, Swachh Bharat Abhiyan, Swachh Bharat Summer Internship (SBSI), Pradhan-Mantri Kaushal Vikas Yojana (PMKVY), Unnat Bharat Abhiyan and many more towards the upliftment of the community as a part of its Institutional Social Responsibility (ISR). The Institute, further aims to intensify its efforts to play active role in extending Government of India flagship programmes and its own initiatives to contribute in community building and skill development through its social outreach programmes.

The vision of JSS Academy of Technical Education, Noida is to become an Institution of excellence in imparting quality Outcome Based Education that empowers the young generation with Knowledge, Skills, Research Aptitude and Ethical values to solve Contemporary Challenging Problems.

The Institute strives to achieve this vision through achieving the following missions:

- Develop a platform for achieving globally acceptable level of intellectual acumen and technological competence
- Create an inspiring ambience that raises the motivation level for conducting quality research
- Provide an environment for acquiring ethical values and positive attitude

## About the Conference

The conference is aimed to gather Scientists, Engineers, Researchers, Academicians and Industry personnel to discuss Intelligent Control and Computation techniques applied to Smart Energy and Mechatronic Systems. The scope of the conference encompasses the following four tracks

### 1. SMART ENERGY SYSTEMS:

Resilient/adaptive grid infrastructures design, planning, operation and management; Electrical Machines and Industrial Drives; Power Electronics Converters; FACTS, active power filters, power quality monitoring and performance enhancement; Demand Response; Resilient Control Architectures and Systems for Smart Energy systems; Renewable energy, wind, solar, fuel cells and distributed generation within microgrids; Energy storage technologies and systems; Transportation Electrification and Electric Vehicles, Computational Intelligence and optimization for smart energy systems; Smart metering, measurement, instrumentation, and control; Energy efficiency; Information, security and privacy for smart energy systems; Sensors, communications and networks.

### 2. SMART HOMES, BUILDINGS AND CITIES:

**A. Sustainability :** Climate change, urban growth, zero carbon & green building, water & waste management, urban regeneration, urban green, energy efficiency, renewable energy sources, product cycle, non-motorized mobility, public transportation, electric vehicle, GIS applications.

**B. Environment :** Climate change, water & waste management, air pollution, urban green, urban agriculture, GIS applications environmental management systems, environmental impact assessment systems, Environmental sustainability and development.

**C. Urban planning :** Regeneration, transform, urban development, strategies, built environment, public space, urban growth, GIS applications, real time urban information systems, sustainable smart cities, smart tolling.

**D. Green Infrastructure :** Smart technologies to face climate change (mitigation/ adaptation), design for new cities/townships, novel sustainable building materials and techniques, sustainable energy management in buildings, zero CO<sub>2</sub> and energy plus buildings, heating and ventilating control systems for reduced energy use.

### 3. CONTROL, MECHATRONICS, ROBOTICS, ADVANCED MATERIALS & MANUFACTURING:

Control systems and applications; mechatronics and robotics; computational intelligence & signal and image processing; sensors, actuators and micro-nanotechnology, control of intelligent sensor systems, modeling and real time simulation technique, neural and fuzzy control, system identification and adaptive control; motion, vibration and noise control; human machine interface, optomechatronics; advanced materials; smart materials, functionally graded materials (FGMs), 3D printing, CAD, CAM, micromachining and non traditional manufacturing.

### 4. INFORMATION AND COMMUNICATION TECHNOLOGIES:

Systems on chip (SoC) and embedded systems; cyber physical systems and Internet of Things; artificial/computational intelligence; advanced data mining, communications for industrial automation; cloud and cognitive computing; Big Data; industrial informatics, information security, data science and algorithm.

The technical program of this International Conference will include keynotes & tutorials by distinguished speakers.

## Publication Details

Each submitted paper will be peer reviewed and only well-researched and well-written papers will be accepted for presentation. Extended version of some presented papers will be selected and submitted for in reputed SCI/Scopus/Web of Science Indexed Journals.

## Important Dates

Paper Submission Deadline	15th July 2020
Notification of Acceptance	31st July 2020
Early Bird Registration	14th Aug 2020
Regular Registration Deadline	1st Sept 2020

## Registration Fee Details

INDIAN AUTHOR ( INR )		FOREIGN AUTHOR ( USD )	
EARLY BIRD (Registration before August 14 2020)	{Registration after August 14 2020}	EARLY BIRD (Registration before August 14 2020)	{Registration after August 14 2020}
Rs 500/-	Rs 1000/-	50 USD	60 USD

NOTE:- 20% discount on registration charges for IEEE/CSI members.

— All registration are charges are including applicable GST.

— Those applying for online payment mode need to submit proof of transaction form.

## Keynote Speakers

- Dr Daciana Iliescu, AsstZodiac Professor, School of Engineering, University of Warwick, UK
- Dr Sundresan Perumal, Faculty of Science and Technology, Universiti Sains Islam
- Dr Saeed Sharif, University of East London
- Dr. Bhim Singh, Professor, Department of Electrical Engineering, IIT Delhi
- Mr Krishnamoorthy Raman, Vice President (Ex) - Global Delivery Head - Industrial Products at L&T Technology Services Limited

## Mode of Payment

Payment modes and details are available on conference website.

## Submission Guidelines

Papers shall be submitted at <https://easychair.org/conferences/?conf=icccsems2020>  
For detailed guidelines, please refer the conference website.

## About the Department of Electronics and Communication Engineering

Department of Electronics and Communication Engineering is one of the preferred branches of engineering disciplines in the academy. Established in 1998, the department offers an NBA accredited B.Tech programme in Electronic & Communication Engineering. The Department has seen remarkable growth in terms of quality of students intake, inclusion of post-graduate programme in 'Advance Electronics and Communication with specialization in VLSI Design' from 2008. The achievements of the students

during and after graduation, faculty specialization, up-gradation in several domain areas and infrastructure to provide the latest lab facilities for research and project work are some of the highlights of the department. The department is NBA accredited and is committed to excellent teaching & learning process and assure on quality education to all stakeholders.

## About the Department of Information Technology

The Department of Information Technology aims at designing, developing, implementing and managing computer-based information systems that are capable of storing, transmitting and retrieving all types of information. The IT department offers an NBA accredited Bachelor of Technology programme in Information Technology. A professional of this area should possess excellent analytical ability, ability to adapt new technologies, good problem solving and troubleshooting abilities and communication skills. Apart from providing opportunities for classroom learning, the department of Information Technology lays a lot of stress on practical and skill-based learning to ensure that students grow as complete IT professionals. The faculty and staff are well qualified and efficient in guiding the students in all aspects of the field of IT.

## About the Department of Computer Science and Engineering

The Department of Computer Science and Engineering (CSE), established in 1998 is one of the oldest departments of this institution. B.Tech CSE program was first accredited in 2005 and now again it has been re accredited till June 30 2023.

The faculty members and technical staff are involved not only in classroom teaching but also in project guidance, industrial interactions, research activities, seminars, workshops, various co-curricular activities and beyond curriculum training, aiding in the holistic development of the students. It offers four year degree programme in Computer Science and Engineering with an annual intake of 180 students and two year M.Tech in Computer Science with an annual intake of 18 students. A great deal of emphasis is laid on industry academia interaction. The department boasts of IBM's Center of Excellence, Nokia research labs and SAP University alliance under which workshops and mentoring sessions on latest technologies and products are organised with resource persons from industry as well as from the department itself.

## JSS Business Incubator- STEP

JSS ITBI (Information Technology Business Incubator) was started in 2000 with support from National Science & Technology Entrepreneurship Development Board (NSTEDB) & Department of Science & Technology (DST), Government of India.

The incubator is engaged to foster entrepreneurship and innovation to make the Startup Ecosystem stronger, with

- Plug and Play facility to start your work in no time.
- Mentors to refine idea, vet the Business plan and help strategy.
- Assist in fund raising to accelerate growth.
- Enabling meetups with Investors and Partners.

JSS ITBI is not about just providing infrastructure support but is to help your business venture for faster growth.