



# International Conference on Control, Automation, Power and Signal Processing (CAPS - 2021) December 10-12, 2021



Organised by :

**PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur, India**

## CALL FOR PAPERS

Aim of this first International Conference on “Control, Automation, Power and Signal Processing” is to bring together academicians, leading engineers, industry researchers, designers and research scholars to exchange and share their experiences, ideas, emerging issues and challenges, and to learn and discuss about the state-of-art and future perspectives of control system, power engineering and signal processing. All scientists, engineers, and students who are interested in theoretical and practical aspects of these allied areas are welcome to CAPS-2021. The conference has four major tracks: original research papers on, but not limited to, the following areas are invited :

### Control

Adaptive, learning and robust control; Nonlinear systems; Networked control; Sensor networks; Complex systems; Multi-agent systems; Co-operative control; Process control and instrumentation; Identification and estimation; Modelling and optimization; Intelligent systems; Discrete event systems; Neural networks; Fuzzy systems; Control applications.

### Automation

Man-machine interface and interactions; Process and Industrial automation; Intelligent automation; Network-based systems; Factory Modelling and simulation; Automation in energy systems; Automation in life sciences and healthcare; Planning, scheduling and coordination; Instrumentation systems and applications.

### Expected Keynote Speakers

**Prof. Chanan Singh, Texas A&M Univ. USA**

**Prof. Saraju Mohanty, UNT, USA**

**Prof. H. Hashimoto, Chuo Univ. Japan**

**Prof. Bhim Singh, IIT Delhi**

**Prof. S. N. Singh, IIT Kanpur**

**Prof. S. Majhi, IIT Guwahati**

**Prof. G. K. Singh, IIT Roorkee**

**Prof. L. D. Behra, IIT Kanpur**

### Power

Modern Power and Smart Energy Systems - Smart grid architectures, Cyber-physical systems, Computational intelligence in power and energy systems, Renewable Energy Systems, Distributed Generation, Power electronics interface and control, Emerging converter topologies Active Filters and harmonics, Active distribution networks and AC/DC microgrids, Smart Buildings, IoT and Resource Aggregation, AC and DC Machines and Drives, EVs and electrification of transportation industry, EV battery storage .

### Signal Processing

Biomedical Engineering, Embedded Reconfigurable, Image Processing and Pattern Recognition, Speech and Video Processing, Information Theory & Coding, Radar Signal and Data Processing, Soft Computing Techniques, VLSI Architectures for High Speed Processing, Antennas, Propagation and Transmission Technologies, Communication Software Techniques, RF and Microwave Communications, Wireless Communications and Technologies.

### KEY FEATURES :

- The best paper and the best student paper awards will be given to the best paper submitted to the conference as judged by the program committee.
- All accepted papers that are presented at the conference will be published in the IEEE Explore Digital Library.
- Travel expenses and accommodation will be provided to the selected student participants.

**Prospective authors are requested to submit full length paper no longer than six pages. Maximum two more pages may be allowed with extra page charges.**

The template concerning the paper is available at  
<https://www.ieee.org/conferences/publishing/templates.html>

### IMPORTANT DATES

**Submission of Full Papers**

**Sept. 10, 2021** ~~April 13, 2021~~

**Notification of Review Results**

**Sept. 25, 2021** ~~June 11, 2021~~

**Camera ready Papers**

**Oct. 15, 2021** ~~July 16, 2021~~

**Paper submission link**

<https://easychair.org/conferences/?conf=caps2021>

### Patron

**Prof. Sanjeev Jain, Director  
PDPM IIITDM Jabalpur**

### General Chairs

**Dr. Prabin K. Padhy, IIITDM Jabalpur  
Dr. Sachin K. Jain, IIITDM Jabalpur**

### Publicity Chairs

**Dr Pankaj Sharma, IIITDM Jabalpur  
Dr. Amit Viswakarma, IIITDM Jabalpur**

### Organising Committee

**Dr. Anil Kumar, PDPM IIITDM Jabalpur  
Dr Varun Bajaj, PDPM IIITDM Jabalpur  
Dr. Ravi Panwar, PDPM IIITDM Jabalpur  
Dr. Dip Prakash Samaddar, PDPM IIITDM Jabalpur**

### Web-management Committee Chair

**Dr. Atul Kumar, PDPM IIITDM Jabalpur  
Mr Tabish Khan, PDPM IIITDM Jabalpur**

### Technical Sponsors

**IEEE Bombay Section  
IEEE MP Subsection**

### Financial Sponsors

**IETE**

### Organizers

**PDPM IIITDM Jabalpur**



### Contact us:

[caps@iiitdmj.ac.in](mailto:caps@iiitdmj.ac.in), Phone: 0761-2794462 / 2794468 / 2794495

### For details:

<https://www.iiitdmj.ac.in/caps2021/>