

# Design Workshop (DeW) 2019

March 8 - 10, 2019

Organised by

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

In collaboration with

Ministry of Foreign Affairs, Japan



## Theme : Security and Privacy of Cyber-Physical Systems

### About DeW 2019

Cloud based infrastructure and services have grown multifold over the last decade especially for business applications, social networks and Industrial Internet of Things (IIoT). Consequently, security and privacy in Cyber-Physical Systems (CPS) have become extremely important. Keeping this in view, the next Design Workshop 2019 (DeW 2019) focuses on "Security and Privacy of Cyber-Physical Systems". The annual 'Design Workshop' is a flagship workshop organized each year by IIITDM Jabalpur in collaboration with Ministry of Foreign Affairs, Japan and with the support and guidance from leading academicians and industry people from across the globe.

DeW 2019 will provide a platform for professionals from academia, government, and industry to discuss how to design and deploy secure CPS infrastructure in the era of IIoT to counter the ever-increasing security challenges. DeW 2019 will include a wide spectrum of topics relevant to secure communication, cryptography and network security, IIoT, sensors and networks, cloud computing, and Industrial design and automation etc. The topics of interest of this workshop include, but are not limited to

- Security of Cyber-Physical Systems
- Cryptocurrency and Blockchain Technology
- Large Scale Network Design and Cyber Security
- Security infrastructure for IoT and IIoT
- Secure Cloud Computing Infrastructure
- Cryptography and Cryptanalysis
- Digital Watermarking, Visual Cryptography, and Steganography

### Invited Speakers

Prof. S. V. Raghavan, Former Professor, IIT Madras, India  
Prof. Takashi Nanya, The University of Tokyo, Japan  
Prof. Kouichi Sakurai, Kyushu University, Japan  
Prof. Masahiro Fujita, The University of Tokyo, Japan  
Prof. Hiroshi Imai, The University of Tokyo, Japan  
Dr. Ponnurangam Kumaraguru, IIIT Delhi, India  
Dr. Sumanta Sarkar, TCS Innovation Labs, Hyderabad, India  
Mr. Dattaram Rao, IBM India  
Mr. Maithli Sharan Gupta, Special DGP, Madhya Pradesh, India

### Registration

Participants from Academia : Rs. 1000/-  
Participants from Research Organizations : Rs. 1000/-  
Participants from Industry : Rs. 5000/-  
Registration can be made in the form of non-refundable Demand Draft in favour of "PDPM IIITDM Jabalpur".

or

Online payment as per the details below:  
Account Name : PROJECT ACCOUNT PDPM-IIITDM JABALPUR  
Account No. : 50210022387  
IFSC Code : ALLA0212433

### Registration Timeline

Workshop Registration : March 06, 2019  
Submission of Student Research Symposium : March 04, 2019  
Submission of Design Challenge : March 04, 2019

### About IIITDM Jabalpur

PDPM IIITDM Jabalpur is a unique Institute established by MHRD Govt. of India in collaboration with Govt. of Japan, to promote interdisciplinary research in the area of design and manufacturing. The Institute follows unique curriculum which provides students with an opportunity to gain interdisciplinary skills. The Institute offers Master of Design and M. Tech. program in Mechatronics, apart from the B. Tech. and M. Tech. programs in Computer Science & Engineering (CSE), Electronics & Communication Engineering (ECE), and Mechanical (ME). The Institute also offers Ph.D. program in ME, CSE, ECE, and Design. To know more about the Institute, please visit [www.iiitdmj.ac.in](http://www.iiitdmj.ac.in).

### Indo-Japanese Collaboration

The Institute is being developed and nurtured under India - Japan partnership as a unique Institute of its kind with focus on IT enabled design and manufacturing. Under an agreement between the two Governments, Japan, a leader in cutting edge manufacturing technologies is committed to provide support for development of the teaching and research programmes, and also to promote the infrastructure of the Institute. For effective implementation of this collaboration, Government of Japan has formed a consortium of six universities and six industries including University of Tokyo, Tokyo Institute of Technology, Tohoku University, Kyushu University, Shibaura Institute of Technology, and Kanagawa Institute of Technology among Universities and Hitachi, Toshiba, Amada, Okuma, Sumitomo Metals, and GE Energy among industries.

### Student Design Challenge

**"Designing a tool for Detecting Abuse against Women on Twitter"**

**Eligibility:** This competition is open to all under graduate, post graduate, and doctoral students of any institute of any domain. Non-resident Indians, as well as foreign students can also take part and there is no entry fee for SDC. All shortlisted participants would be entitled for free registration in DeW 2019 and will earn a Certificate of Participation. The top three entries will earn a Certificate of Recognition and Cash Prizes up to INR 10,000.

**Judging Criteria:** Each design will be judged by a panel of experts based on Creativity, Effectiveness, Practicality, Originality, Usability, and Presentation. Each team can have maximum of three members.

### Student Research Symposium

The workshop also provides a platform for young researchers who are pursuing research in the area of "Security and Privacy of Cyber-Physical Systems". The submitted work will be short-listed/evaluated by the panel of experts. Later on, the short-listed candidates have to register and present their work at the workshop. The candidates are required to submit PDF copy of detailed research work along with the published research papers. These documents should be submitted on or before February 1, 2019 through email at [dew@iiitdmj.ac.in](mailto:dew@iiitdmj.ac.in). The top three entries will earn a Certificate of Recognition and Cash Prizes up to INR 10,000.

For more details kindly visit <http://dew.iiitdmj.ac.in>

Email: [dew@iiitdmj.ac.in](mailto:dew@iiitdmj.ac.in)

### Workshop Coordinators

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