Two-Day Workshop on Soft Computing Techniques for Wireless Sensor Networks
14 - 15th September, 2019

Organized by

Department of Computer Science and Engineering
Jaypee Institute of Information Technology, Sector-128 Noida
(Declared Deemed to be University under Section 3 of UGC Act 1956)

ABOUT JIIT

Jaypee Institute of Information Technology is a leading engineering Institute established in the year 2001 with the vision of becoming a center of excellence in the field of IT and related emerging areas of education, training, and research comparable to the best in the world for producing professionals who shall be leaders in innovation, entrepreneurship, creativity, and management.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEEING

The Department of Computer Science & Engineering and Information Technology is a center of excellence that provides high quality education to develop future leaders in all aspects of computing including education and entrepreneurship, practical relevancy and cutting edge research, and catalyzes IT entrepreneurship. It offers 3 undergraduate and 5 post graduate programs. M. Tech. Computer Science and Engineering with specializations was started 4 year ago. Currently an active research is being done by under graduate, post graduate, and doctorate students in different domains of networks. The main areas of focus are mobile computing, soft computing techniques, internet of things, wireless sensor network etc.

ABOUT THE PROGRAM

Nowadays, sensors are used in our day to day life such as health monitoring using smart watch, fire detection in residential societies, temperature monitoring in Ac's and Fridge, etc. and many more. Wireless sensor networks (WSNs) make the operation of an application more effective by integrating sensing, communication, and storage. Since these sensor nodes are battery operated, therefore, a number of parameters need to be optimized for the longer operation of the application. Classical methods of optimization are not efficient as they are tailored specifically to the problem in hand. Recently, various techniques like soft computing have been explored to optimize the various parameters. Soft computing techniques are aimed to exploit tolerance for imprecision uncertainty, and partial truth to achieve robustness, tractability, and low cost which is required in resource constraint WSNs. Soft computing is currently causing a paradigm shift in WSNs. This workshop aims to provide a forum for exchanging ideas and information on current research studies, challenges, system developments, and practical experiences in the soft computing applicability in localization, clustering, inferences, coverage, and connectivity, privacy and security of WSNs, etc. This particular workshop endeavors to confront the challenges of soft computing algorithms in the wireless sensor network by inculcating new ways of thinking about the approaches and design paradigms.

WORKSHOP HIGHLIGHTS

Following major topics of wireless sensor networks will be covered using soft computing techniques

- *Network Modeling*
- *Localization*
- *Coverage and Connectivity*
- *Network Inferences*
- *Clustering and Routing*

CHIEF PATRONS

Hon'ble Shri Jaiprakash Gaur Ji
Hon'ble Shri Manoj Gaur Ji

PATRONS

Prof. S.C. Saxena, Vice Chancellor, JIIT
Prof. Hariom Gupta, Director, JIIT 128

CONVENERS

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ORGANIZING COMMITTEE

Dr. Shailesh Kumar
Dr. Rashmi Kushwah
Mr. Rupesh Koshariya

RESOURCE PERSONS

Eminent academicians and researchers affiliated to IIT, IIIT, CCET, and JIIT shall be deliver the sessions with hands-on / practical demonstrations.

HOW TO REACH

The nearest railway station to Noida is New Delhi and Hazrat Nizamuddin. Moreover, these stations are well connected with Metro. The metro stations closest to the campus are BOTANICAL GARDEN/ OKHLA BIRD SANCHURY/ SECTOR-83. Shared autos and reserved autos are available there. You have to book one for JIIT, Sector-128.

IMPORTANT DATES

Last Date of Submission of Application: ~~20th August 2019~~ 10th Sept. 2019

Display of List of Selected Participants: ~~23th August 2019~~ 12th Sept. 2019

HOW TO REGISTER

To register yourself kindly fill the Google form given on the following link:
http://bit.do/scwsn2019
Participants can pay the registration fee through NEFT/DD and the transaction details should be mentioned in Google form.

REGISTRATION FEE

Industry Personnel	**INR 2000/-**
Academician	**INR 1000/-**
Students	**INR 500/-**

Accommodation: Non-AC Room (at J128)-Nominal charges.

BANK DETAILS FOR NEFT:

Account Name: Jaypee Institute of Information Technology.
Account Number: 910010050443719.
Bank Name: Axis Bank
IFSC Code: UTIB0000372.
Bank Address: Axis Bank Ltd. Karkadooma, New Delhi-110092.

Demand Draft drawn in favour of "**Jaypee Institute of Information Technology**" payable at **NOIDA".**

Note: Participants need to send their Demand Draft and copy of registration form to under mentioned by registered post. If payment is done through NEFT then fill the transaction details at the time of registration via google form.

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VENUE

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