



**5<sup>TH</sup> INTERNATIONAL CONFERENCE ON INFORMATION SYSTEM  
DESIGN AND INTELLIGENT APPLICATIONS INDIA (2018)**

**(19- 21 July, 2018)**

**Organised by UNIVERSITY DES MASCAREI, MAURITIUS**

**Special Session: *Intelligent Computing and Cognitive Sensing, Applications and Challenges***

***Session Chairs:***

***Dr. Alok Ranjan Prusty,***

*Assistant Professor, Vellore Institute of Technology, VIT Bhopal University, India*

***Dr. Srinivas Sethi,***

*Associate Professor, IGIT Sarang , India*

***Theme of Session:***

*Intelligent computing is a set of nature-inspired computational practices and approaches to deal with complex real-world problems to which mathematical or conventional modelling can be rarely used for a few reasons: the processes might be more complex for mathematical reasoning, it might contain some uncertainties during the process, or the process might just be stochastic in nature. Indeed, many real-life problems cannot be converted into binary language i.e. distinctive values of 0 and 1 for computers to process it. Computational Intelligence therefore provides a breakthrough for such problems. Cognitive sensor networks are based on the deployment of a large number of sensors for intelligently and autonomically obtaining localised and situated information of the*

sensing environment. Due to the inherent complexities involved in managing a large number of wireless sensors, bio-inspired sensing and networking have attracted substantial research interest in recent years. The use of bio-inspired sensing generally involves the specification of a set of simple rules and how they should be iteratively applied to the population.

*Topics of Interest:*

We invite original (un-published) research contributions based on the above mentioned theme including following topics but not limited to:

*Cognitive wireless sensor networks*

*Cooperative and distributed sensor deployment and localization*

*Wireless Ad hoc Sensor Networks*

*Crowd sensing*

*Intelligence support for sensor network management*

*Heterogeneous wireless environments*

*Sensor data fusion for ubiquitous computing*

*Intelligence system architectures, applications, and services*

*Green technologies in information, computing, and communication systems*

*Intelligent Computing for Sustainable Energy*

*Intelligent Computing for hybrid vehicle*

*High-performance computing, architectures, algorithms, and applications*

*Expert Systems*

*Distributed Computing and Cooperative Computing*

*Artificial Intelligence and Intelligent Computing*

*Data analytics in Intelligent Sensor Network*

*Cognitive computing*

*bio-inspired sensor network design*

*self-synchronization computing*

*Testbed implementation and experimental trials*

*Paper Submission Process:*

**Please submit your un-published paper (in word/pdf format) at email: [cindiaspl@gmail.com](mailto:cindiaspl@gmail.com)**

For any further queries related to this special session, please contact the session chairs at:

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