



2015 IEEE WORKSHOP ON COMPUTATIONAL INTELLIGENCE: THEORIES, APPLICATIONS AND FUTURE DIRECTIONS

(IEEE WCI - 2015)

Dec 14th -17th, 2015



INDIAN INSTITUTE OF TECHNOLOGY KANPUR



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IEEE Uttar Pradesh Section Computational Intelligence Society Chapter invites submissions of substantial, original, and previously unpublished research work in IEEE Workshop on Computational Intelligence (IEEE WCI 2015). Computational Intelligence (CI) is a set of biological and linguistic tools and methodologies to address complex real-world problems to which traditional approaches may not be very effective. Major constituents of CI are neural networks, evolutionary algorithms, fuzzy systems, and hybrid intelligent systems. The workshop is meant to discuss the state-of-the-art developments, challenges and unsolved open problems in the field of CI. It will also provide a platform to students, scientists, faculty members and research professionals to interact, present and get reflections on their work.

Topics of Interest

- ❖ Neural Networks
- ❖ Evolutionary Algorithms
- ❖ Genetic Algorithms
- ❖ Fuzzy Knowledge Systems
- ❖ Type-2 Fuzzy Sets
- ❖ Optimization Algorithms
- ❖ Neuro-Fuzzy Systems
- ❖ Industrial Applications of CI
- ❖ Big Data Analytics
- ❖ Intelligent Social Informatics
- ❖ Data mining and Visualization
- ❖ Bioinformatics
- ❖ Industrial Sensing Intelligence
- ❖ Intelligent Information Retrieval
- ❖ Gesture Identification and Recognition
- ❖ Object Identification and Scene Analysis
- ❖ Pattern Recognition
- ❖ Image and Video Processing
- ❖ Game Theory
- ❖ Intelligent Signal Processing
- ❖ Industrial Automation
- ❖ Swarm Intelligence
- ❖ Intelligent Agents
- ❖ Intelligent Systems and Control
- ❖ Machine Learning Algorithms
- ❖ Human Machine Interaction
- ❖ Experts Systems
- ❖ Learning and Adaptive Control
- ❖ Intelligent Monitoring Systems
- ❖ Technologies in Industrial Automation
- ❖ Healthcare Systems
- ❖ Internet of Things
- ❖ Cyber Physical System
- ❖ Smart Grid
- ❖ Smart Vehicles
- ❖ Natural Language Processing
- ❖ Cognition
- ❖ Modeling and Simulation

Conference Highlights – Keynote Speeches

- ❖ Prof. Nikhil R Pal, Vice President for Publications, IEEE CIS, ISI Kolkata
- ❖ Prof. Sankar Pal, Distinguished Scientist and Former Director, ISI Kolkata
- ❖ Prof. J. Sarangapani, Missouri University Of Science & Technology, USA
- ❖ Prof. Karmeshu, Former Dean of SC&IS, Jawaharlal Nehru University, India
- ❖ Prof. Shantaram Vasikarla, California State University Long Beach, USA
- ❖ Dr. Al Salour, Technical Fellow, The Boeing Company, USA

Publication

Paper submission is now open. To submit the paper, please check workshop webpage. All accepted and presented papers will be indexed in IEEE Xplore Digital Library.

Important Dates

- Full paper submission deadline - September 30th, 2015
- Notification for acceptance - October 30th, 2015

Registration

Each paper must have at least one author registered with full registration fee. A single, full registration can cover up to two papers.



For more details please visit: <http://www.iitk.ac.in/iil/IEEEWCI2015/> Contact us at: ieeewci2015@gmail.com