

ICSC-2019
20-21 April 2019
THDC-IHET, Tehri

Proposal Form for Conducting Special Session

Title of the Session: Soft Computing Techniques for Data Engineering and Communication Technology.

Session Organizers: Dr. Suresh Limkar

Name of the Session Chairs: Dr. Suresh Limkar

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Introduction of the session: Conventional techniques have successfully been applied for the solution of many complex real world problems in diverse areas but solving a problem using traditional approach requires understanding and development of an algorithm. The algorithmic requirement limits their usefulness in applications such as automobile autopilot, intelligent robotics, computer vision, recognition of speech, hand written graphics, machine translation, learning through experience etc. where no exact mathematical relationships between input-output variables are available. Therefore a non-algorithmic approach to deal with such situations is required. Soft computing/Computational Intelligence is an engineering discipline that provides an alternative to algorithmic programming. The terms Soft computing and Computational Intelligence are generally used interchangeably in engineering literature.

The term soft computing was first coined by Zadeh in 1990s when there was intense competition between various methodologies linked to artificial intelligence. His perception was that more could be gained by cooperation than by claims and counterclaims of superiority. The principal constituents of soft computing are fuzzy logic, neurocomputing, and probabilistic reasoning, with the latter subsuming genetic algorithms, belief networks, chaotic systems, and parts of learning theory. In many cases a problem can be solved most effectively by using fuzzy logic, neural networks, and probabilistic reasoning in combination rather than exclusively. The main paradigms of Computational Intelligence are neurocomputing, evolutionary computing, swarm intelligence, and fuzzy logic. Soft Computing, in addition to the paradigms of Computational Intelligence, also includes probabilistic methods. All these have prompted that Soft Computing methodologies are

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most widely applied in Data Engineering and Communication Technology. So, this topic has presented considerable interest in the Computation Intelligence community in the last few years.

Topics of the session: Papers of both theoretical and practical nature are welcome. The papers should be of high scientific standard and should describe original, so far unpublished work. All submissions will be passed two-stage review. The session organizer takes care for the first stage of the review process, which is independent form the regular conference paper review. Each paper will be anonymously reviewed by at least three reviewers, and a consideration will be made on the basis of these reviews. The special session organizer will then send the considered papers as well as the corresponding paper reviews to the conference organizing committee for the 2nd stage of the review process.

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

- ♣ Applications and Interaction for Social Networking
- ♣ Business Models and Processes for the Internet of Things
- ♣ Case Studies in areas of Healthcare, Agriculture and Transport
- ♣ Communication Networks for Internet of Things
- ♣ Communication Systems and Architectures for the IoT
- ♣ Context-awareness and Location-awareness
- ♣ Data Engineering for Internet of Things
- ♣ Data Utilization for Internet of Things
- ♣ Future Technologies Bridging the Physical and Virtual Worlds
- ♣ Internet of Services , Web of Things
- ♣ IoT Architectures, Platforms and Applications
- ♣ IoT / Mobile Services
- ♣ Location and Discovery of Things on the Internet
- ♣ ♣ Network Design and Architecture and Communication Protocols
- ♣ Performance Evaluation and Modelling

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- ♣ Security, Privacy and Trust
- ♣ Semantic Web of Things
- ♣ Smart Environment, Smart Objects, Smarter Sensors, Smart City
- ♣ Software Defined Network Architecture and Middleware
- ♣ Software Defined Network
- ♣ Wearable Technology

Only electronic copies of the submissions in Microsoft Word, PDF or Postscript forms are acceptable for review purposes. Please submit papers in an electronic form to the corresponding organizer for consideration.

Important Dates:

Last Dates of Paper submission: 10th March 2019

Paper Acceptance Notification: 20th March 2019

Last date for receiving CRP and Author Registration: 1st April 2019

Conference Dates: 20-21 April 2019

Paper Submission Process:

Paper Submission Process: Please submit your paper (in word/pdf format) at email: sureshlimkar@gmail.com with subject line "Special Session on Soft Computing Techniques for Data Engineering and Communication Technology".

For more Information kindly visit the website: www.icisc.com.

For any further queries related to this special session, please contact the session chair: Prof. Suresh Limkar, E-mail ID: sureshlimkar@gmail.com, Mobile No: +91 9823328686.