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on

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Computational Intelligence - Roadmap for Next Gen Technologies

Kavita Sharma, NIT Kurukshetra, India

kavitasharma_06@yahoo.co.in

Himani Bansal, IIIT, Noida, India

singal.himani@gmail.com

Aims & Scope:

Computational Intelligence (CI) is an offshoot of artificial intelligence in which the emphasis is placed on heuristic algorithms such as fuzzy systems, neural networks and evolutionary computation. It is usually contrasted with 'traditional', 'symbolic' or 'good old fashioned artificial intelligence'. The IEEE Computational Intelligence Society uses the tag-line 'Mimicking Nature for Problem Solving' to describe Computational Intelligence, although mimicking nature is not a necessary element.

In addition to the three main pillars of CI (fuzzy systems, neural networks and evolutionary computation), Computational Intelligence also encompasses elements of learning, adaptation, heuristic and meta-heuristic optimization, as well as any hybrid methods which use a combination of one or more of these techniques. More recently, emerging areas such as artificial immune systems, swarm intelligence, chaotic systems, and others, have been added to the range of Computational Intelligence techniques. The term 'Soft Computing' is sometimes used almost interchangeably with Computational Intelligence.

Computational Intelligence techniques have been successfully employed in a wide range of application areas, including decision support, generic clustering and classification, consumer electronic devices, stock market and other time-series prediction, combinatorial optimization, medical, biomedical and bioinformatics problems, and many, many others. Although CI techniques are often inspired by nature, or mimic nature in some way, CI applications are not restricted to solving problems from nature.

Subtopics:

- Computational intelligence solutions and recommendation in recommender systems.
- Computational intelligence in mobile-cloud based computing for social network recommendation services.
- Fuzzy system theory and recommender systems.
- Social data analytical approaches using computational methods.
- Deep learning and machine learning algorithms for efficient indexing and retrieval.

- Intelligent techniques for smart surveillance and security.
- Modeling, data mining, and public opinion analysis based on social big data.
- Evolutionary algorithms for data analysis and recommendations.
- Crowd intelligence and computing paradigms for sentimental analysis and recommendation.
- Applied soft computing for content security, vulnerability and forensics.
- Computational intelligence in multimedia computing and context-aware recommendation.
- Crowd intelligence-assisted ubiquitous, personal, and mobile social media applications.
- Artificial intelligence and pattern recognition technologies for recommendation in healthcare.
- Deep learning and computational intelligence based medical data analysis for recommendation and smart healthcare services.
- Prediction of renewable energy generation using machine learning and neuro-fuzzy systems.
- Optimization of power quality, protection and reliability analysis of power system.
- Computer vision and image processing.
- Automatic modeling and programming.
- Security and Privacy Intelligence.

Technical Programme Committee(s):

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Submission Procedure:

Researchers and practitioners are invited to submit papers through the below given easy chair link:

<https://easychair.org/conferences/?conf=suscom2019>.

Select the special session track from the listed track. All submissions must be original and may not be under review by another publication. The submitted papers will be reviewed on a double-blind and peer review basis.

Publications:

All registered and presented papers will be published in the **ELSEVIER-SSRN Digital Library** at <https://hq.ssrn.com/conference=SUSCOM-2019>. Extended versions of selected papers will be considered for the special issue of journals indexed in ESCI, Scopus, SCIE, DBLP, Web of Science, ACM, Compendex, INSPEC, Thomson Reuters, Cabell's Directories to name a few.

All inquiries should be directed to the attention of Session Chair/Co-Chair:

Name: Kavita Sharma, Himani Bansal

Designation: Assistant Professor

Email Id: kavitasharma_06@yahoo.co.in and singal.himani@gmail.com

Contact Number: +91-9899973621 and +91-8053970975