



4th International Conference on Machine Intelligence and Signal Processing (MISP2022), March 12-14, 2022

(<https://misp2022.nitr.ac.in/>)

Organized by

**Department of Computer Science and Engineering,
National Institute of Technology Raipur, India**

1. Title of the Special Session: Computationally Intelligent Algorithms for Emerging Computing Paradigms

2. Details of Session Chair and Co-Chair

Name (Session Chair): Dr. Avinash Chandra Pandey
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3. Aims & Scope (Theme of Session)

Over the last few decades, there has been a revolution in the Emerging Computing Paradigms that have led to generation of massive multimedia data. With technological advancement, a number of intelligent systems have been developed to interpret such data with minimal human interference. Moreover, “computationally” intelligent algorithms have advantaged artificial intelligence in finding optimal solutions for complex and non-linear problems. Therefore, the complexity of non-linear real-world problems in terms of execution time and high dimensionality has been handled by such algorithms efficiently.

With the above-mentioned idea, this special session aims towards latest cutting-edge research in the field of computationally intelligent algorithms and their use in solving and analysis of various real-world problems. The paper submissions will focus on the following topics preferably, but the session’s scope is not limited to designing of computationally intelligent algorithms to solve mathematical numerical optimization problems only; (1) application of computationally intelligent algorithms on unstructured data, such as text, images, and videos, audio; (2) evolutionary and swarm intelligence; (3) designing of hybrid nature-inspired algorithms; (4) nature-inspired computation; (5) intelligent algorithms for artificial vision, big data, cloud, edge, fog, Internet of Things (IoT), Software-defined Networking (SDN); (6) computationally intelligent algorithms for emerging computing paradigms.

4. Subtopics: Topics include (but are not limited to) following:

- Designing of computationally intelligent algorithms to solve mathematical numerical optimization problems.
- Application of computationally intelligent algorithms on visionary data, such as images and video.
- Hybrid nature-inspired algorithms using evolutionary and swarm intelligence.

- Computationally intelligent computation for Big data, IoT, cloud, edge, fog, SDN.
- Computing solutions using Nature-inspired computing and machine/deep learning.
- Computationally intelligent solutions for cyber physical systems.
- Wearable & Implantable Technologies
- Machine Intelligence.
- Open-source tools for Computation intelligence.
- Machine learning for intelligent analytics

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

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Submission Guidelines for Authors

- ❖ Prospective authors are invited to submit original research work that falls within the scope of the session. All submissions will be thoroughly peer-reviewed by experts based on originality, significance, and clarity.
- ❖ Only papers presenting novel research results or successful innovative applications will be considered for publication in the conference proceedings.
- ❖ Authors are requested to submit their Manuscripts through the Easy Chair System. <https://easychair.org/my/conference?conf=misp2022#>
- ❖ The paper must be in Springer format and of size of 12-15 pages. [Springer Author's Guidelines](#)
- ❖ Please visit conference website for paper format and other details: <https://misp2022.nitr.ac.in/#>
- ❖ All accepted and registered papers under MISP 2022 will be submitted for possible publication in Scopus Indexed Springer Book Series (approval pending).

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Special Session Timeline

Special Session Submission Deadline: **15th January 2022**

Acceptance Notification (1st round): 30th January 2022

Acceptance Notification (2nd round): February 15th, 2022

Camera Ready Submission: 20th February 2022

Registration Due: 25th February 2022

Conference Date: 12th March – 14th March 2022.