Special Session on
Bio-Inspired Algorithms in Artificial Vision

Details of Session Chair and Co-Chair:

Dr. Himanshu Mittal
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Dr. Avinash Chandra Pandey
Assistant Professor (Senior Grade),
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Dr. Satish Chand
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Dr. Mukesh Prasad
Senior Lecturer,
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Aims & Scope:

Over the last few decades, there has been a revolution in the analysis of artificial vision with the availability of massive data in the form of images and videos. With technological advancement, vivid artificial systems have been developed to interpret such data with minimal human interference. Moreover, bio-inspired algorithms have advantaged artificial intelligence in finding optimal solutions for complex and non-linear problems. Therefore, the complexity in non-linear visionary problems, like execution time, high dimensionality, and others, have been handled by bio-inspired algorithms efficiently and have presented promising vision-based solutions.
With above mentioned idea, this special session aims at latest cutting-edge research in bio-inspired algorithms and their use in the analysis of vision problems. Submissions will be regarding the following topics (but not limited to):

**Subtopics:**

- Designing of bio-inspired algorithms to solve mathematical numerical optimization problems.
- Application of bio-inspired algorithms on visionary data, such as images and video.
- Hybrid bio-inspired algorithms using evolutionary and swarm intelligence.
- Bio-inspired computation for vision application in big data or IoT environment.
- Bio-inspired computing in deep learning
- Bio-inspired computation through artificial neural networks and deep learning algorithms.

**Technical Programme Committee(s):**

1. Dr. Deepak Gupta, National Institute of Technology, Arunachal Pradesh.
2. Dr. Akshansh Gupta, Central Electronics Engineering Research Institute, Pilani.
3. Dr. Ashish Kumar Tripathi, NIT Jaipur.
4. Dr. Raju Pal, JIIT, Noida.
5. Ankur Kulhari, Sikar, Rajasthan.
6. Dr. Sumit Kumar, Amity University, Noida.
7. Dr. Neeraj Jain, JIIT, Noida.
8. Dr. Amritpal Singh, JIIT, Noida.
10. Dr. Bindu Verma, JIIT, Noida.
11. Dr. Shailesh Kumar, JIIT, Noida.
12. Deepshika Shukla, SRMU, Lucknow.
13. Dharamesh Niranjan, VIT, Gautam Budh Nagar.
14. Priyanka Sharma, SRM University, Delhi.

**Submission Procedure:**

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

[https://easychair.org/conferences/?conf=iccis20](https://easychair.org/conferences/?conf=iccis20)

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:

The after-conference proceeding of the CIS2020 will be published in Springer Book Series, ‘Lecture Notes in Networks and Systems’.

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

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