



9th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2021) June 25 - 26, 2021

National Institute of Technology Mizoram, India

CALL FOR PAPERS

Special Session on “Recent Trends in Bio-Inspired techniques for Industrial Applications (BIA)”

(Paper Submission by email only)

Session Chair(s):

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Theme of Session:

Many industrial applications require highly efficient computing models. Computing models are often derived using highly complexed conventional numerical techniques. In the recent past several Evolutionary and Meta-heuristic algorithms have emerged as promising computing tools providing solutions to many engineering problems in multiple disciplines. These models, inspired by biology is a way to make use of concepts, principles and mechanisms underlying biological systems. Bio-inspired techniques doesn't possess complexed numerical steps and are capable of handling multimodal problems with ease. As bio-inspired systems are being developed, many researchers have identified them as useful tools for engineering applications including optimization and adaptive engineering systems. Given an infinite time for computation, these techniques are capable of providing global optimum.

In spite of these advantages, there are several industrial applications where conventional numerical techniques are predominant even till now for several reasons. Considering this, the Session aimed to open deliberations on pros and cons of these novel techniques and tools along with the interest to explore the innovations in the contemporary research in the fields.



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Topics of Interest:

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

- Orthogonal Methods
- Hybrid deterministic/metaheuristic approach
- Gradient-based methods
- Modelling techniques for Electromagnetics
- Conventional and bio-inspired techniques for array synthesis
- Bio-inspired techniques for Wireless sensor networks
- Modelling and Simulation techniques in VLSI industry
- Techniques for Image Segmentation, watermarking and fusion
- Artificial Intelligence and Machine Learning
- Biomedical Informatics and Computation
- Techniques for Coding and Channel Analysis
- Network Communication

Paper Submission Process: (By Email to the following ID only)

Please submit your paper (in word/pdf format) at

Email: satishchowdary@ieee.org

with 'Recent Trends in Bio-Inspired techniques for Industrial Applications (BIA)' mentioned in the subject line.

Program Committee:

Prof. Ganapati Panda, IIT-BBSR, Bhubaneswar, Odisha, India

Dr. Jaume Anguera Pros, Universitat Ramon Llull, Barcelona, Spain

Dr. T. Srinivas, Applied Photonics Lab, ECE Dept, IISc Bangalore, India

Dr. T. Venkateswara Rao, CR Reddy College of Engineering, Eluru, India

For any further queries related to this special session, please contact the session chairs at:

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