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UNIVERSITY**

# **CALL FOR PAPER**

**Special Session on**

*“Intelligent Computing in Multidisciplinary Engineering  
Applications”*

In

**International Conference**

on

**Contemporary Computing and Informatics  
(IC<sup>3</sup>I-2023)**

**14<sup>th</sup> – 16<sup>th</sup> September 2023**

At

**Amity University Uttar Pradesh, Plot No. 48 A, Amity Road,  
Knowledge Park III, Greater Noida, Uttar Pradesh, India – 201308.**

**Technically Co-Sponsored by**



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## **Session Chair:**

**Dr. Charu Jain**, Manav Rachna University, Faridabad, India.

**Dr. Aarti Chugh**, Amity University, Haryana, India.

**Dr. Nisha Charaya**, Amity University, Haryana, India.

### **Important Weblinks:**

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### **Important Dates:**

Paper Submission Deadline:	14 <sup>th</sup> June 2023
Notification of Acceptance:	16 <sup>th</sup> July 2023
Camera Ready Paper Submission Deadline:	31 <sup>st</sup> July 2023
Last Date of Registration:	12 <sup>th</sup> August 2023
Conference Date:	14 <sup>th</sup> – 16 <sup>th</sup> September 2023

[Amity University](#) is a research driven University which offers higher education in diverse field from Engineering, Management, Life Sciences, Applied Science and the like. Amity University provides quality platform for research in field of Academics. The campus is organizing International Conference on Technological Advancements and Innovations on 14<sup>th</sup> – 16<sup>th</sup> September 2023.

This Conference includes many topics which were deeply deliberated and which brewed new ideas. Thus, giving rise to new avenues for researcher. We aim to take those concepts further to derive fresh hypothesis and arrive at the logical deductions. The participation of scientist from across the globe was very encouraging in our last conferences organized in India. This time we are anticipating even larger congregation from more diverse domains as we are reaching out too many eminent philosophers, thinkers and academicians from scientist fraternity.

### **Sub-themes (but not limited to):**

Computational intelligence serves as a powerful tool to mimic and process human knowledge. This has yielded a spectrum of intelligent computing approaches to

optimize multidisciplinary engineering applications. Although ‘Intelligent Computing’ is a developed area of research, many new findings are being evolved by researchers in multitude of applications. It is known that hybridization of computational approaches with traditional engineering methodologies and applications has become a topic of increasing interest for both researchers and developers globally from academia as well as industries.

This special session is devoted to promote the investigation of the latest research of mathematical models and foundations and their effective applications, to explore the latest innovations in theories, models, ideas, technologies, applications and tools of Computer science, Artificial Intelligence, soft computing, machine learning and Big Data to assess the impact of the approach, and to facilitate numerous interdisciplinary domains of engineering and bio-medical.

The theme covers following topics (intelligent algorithms with their prospective applications in any of these domains) but not limited to:

### **Algorithms**

- Evolutionary Computation
- Swarm Intelligence
- Artificial Neural Networks
- DNA and Molecular Computing
- Biological Computing (Bio-Inspired Computing)
- Artificial Immune Systems
- Autonomy-Oriented Computing
- Agent based Systems
- Computational Neuroscience
- Fuzzy Systems
- Genetic Algorithms
- Hybrid Systems
- Multi / Many-objective
- Optimization Deep Learning
- Convolutional Neural Networks

### **Applications**

- Multimedia & Text Processing
- Computational Neuroscience
- Pattern Recognition and Machine Learning
- Signal, Image and Video Processing Speech Processing
- Data Fusion, Knowledge Discovery and Data Mining
- Expert Systems, Information
- Security Computer Vision

- Cloud Computing, Bio-Informatics, Parallel Computing
- Natural Language Processing
- Human Computer Interactions
- Segmentation
- Gesture Analysis, Robotic Vision systems, Biometrics, Security and Forensics Applications.

**Note:** It is a mandatory requirement that all papers submitted for this session must be e-mailed to [charujain@mru.edu.in](mailto:charujain@mru.edu.in) , [achugh@ggn.amity.edu](mailto:achugh@ggn.amity.edu), [ncharaya@ggn.amity.edu](mailto:ncharaya@ggn.amity.edu) along with [Microsoft CMT](#) submission.

In case of any query, please write to us on:

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