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ORGANIZING COMMITTEES

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Mr. Kurian Thomas, Manager, Toc H Public School Society

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Mr. Sandeep Sreekumar, IndsutrYApps, Singapore

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Dr. Jesna Anver, Toc H Institute of Science & Technology, India
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Mr. Sharath P Raju, Toc H Institute of Science & Technology, India
Ms. Philo Sumi, Toc H Institute of Science & Technology, India
Mr. Jacob Jose Chemmankuzha, Toc H Institute of Science & Technology, India

LOCATION MAP



14th International Conference

on

Innovations in Bio-Inspired Computing and Applications

IBICA '23

14 - 15 December 2023

Website: <https://www.mirlabs.org/ibica23/>

Organized by

Department
of

Computer Science & Engineering

(Accredited by NBA)

in association with



Computer
Society of India

Toc H INSTITUTE OF SCIENCE & TECHNOLOGY

Arakkunnam P.O | Mulanthuruthy | Ernakulam | Kerala 682313



A MEETING PLACE FOR INNOVATIVE MINDS | Toc H Kochi

ABOUT IBICA '23

IBICA'23 is the 14th International Conference on Innovations in Bio-Inspired Computing and Applications. The aim of IBICA is to provide a platform for world research leaders and practitioners, to discuss the “full spectrum” of current theoretical developments, emerging technologies, and innovative applications of Bio-inspired Computing. Bio-inspired Computing is currently one of the most exciting research areas, and it is continuously demonstrating exceptional strength in solving complex real life problems. The main driving force of the conference is to further explore the intriguing potential of Bio-inspired Computing. IBICA 2023 will be a hybrid conference that will run fully in-person and fully virtually to take advantage of the best that the two modalities can offer. Besides regular paper presentations, the technical programme will include 8-10 plenary lectures and poster sessions.

ABOUT THE INSTITUTION

Toc H Institute of Science and Technology established in 2002, is one of the much sought after professional institutions in Kerala, attracting extremely talented management & engineering students across the nation. The institute is approved by All India Council for Technical Education (AICTE), New Delhi and Government of Kerala, and is affiliated to APJ Abdul Kalam Technological University. The Institute is accredited by NAAC (National Assessment and Accreditation Council) with NBA (National Board of Accreditation) accredited programs (Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Mechanical Engineering and Safety & Fire Engineering) and ISO 9001:2015 Certification which ensure top-quality learning environment. The institute also offers B. Tech Programs in Robotics & Automation Engineering, Electrical & Computer Engineering, Electrical & Electronics Engineering and Information Technology and M. Tech Programs in Construction Engineering and Management, Data Science, Wireless Technology, Power Electronics and Thermal Engineering.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering, since its inception in 2002, imparts quality education in the field of B.Tech Computer Science and Engineering, keeping in mind the requirements of the dynamic, innovative and highly global environment of the present era. The department also offers M.Tech in Data Science, since 2020, which is one of the most sought after courses globally. The Department has excellent infrastructure facilities with advanced computer laboratories, full-fledged smart classrooms and well-functioned library. The Department offers progressive teaching-learning environment through a team of competent and committed faculty members, experienced in both teaching and industry and are engaged in cutting-edge research areas like Artificial Intelligence, Internet of Things, Blockchain Technology etc.

INSTITUTION VISION

To become a globally recognized Institution that develops professionals with integrity who excel in their chosen domain making a positive impact in industry, research, business, and society

INSTITUTION MISSION

- To provide the ambiance necessary to achieve professional and technological excellence at the global level.
- To undertake collaborative research that fosters new ideas for sustainable development.
- To instill in our graduate's ethical values and empathy for the needs of society.

DEPARTMENT VISION

To acquire global excellence in the field of Computer Science and Engineering, nurturing in professionals, technical competence, innovative skills, professional ethics and social commitment.

DEPARTMENT MISSION

- To equip students with a strong foundation in the area of Computer Science and Engineering using effective teaching-learning practices.
- To provide state-of-the-art infrastructure to suit academic, industry and research needs at the global level. To engage students and faculty in interdisciplinary research that promotes innovative ideas for sustainable development.
- To incorporate skill enhancement programmes for students and faculty to cope with the contemporary developments in technology.
- To inculcate effective communication skills, professional ethics and social commitment among professionals through value added programs.

CALL FOR PAPERS

Topics include, but are not limited to:

Bio-inspired Computing

Ant Colony System
Artificial Immune Systems
Artificial Intelligence
Artificial Neural Networks
Cellular Automaton
Cognitive Modeling
DNA Computing
Differential Evolution
Emergent Systems
Evolutionary Computations
Evolutionary Strategies/Programming
Fuzzy Logic
Genetic Algorithms/Programming
Granular Computing
Neutrosophic Systems
Organic Computing
P Systems
Particle Swarm Optimization

Emerging Technologies & Applications:

Biomedicine
Bioinformatics
Business Intelligence
Cloud Computing
Data Mining and Knowledge Discovery
E-learning
Financial Computing
Healthcare

Life Sciences Multimedia Applications
Network Management
Robotics
Social Networks Analysis and Computing
System Control and Optimization
Ubiquitous/Pervasive Computing
Web Intelligence
Wireless/Sensor Networks
Other Applications

Intelligent Distributed and High-Performance Architecture

Hybrid systems involving software agents and human actors
Intelligent cloud infrastructures
Agent-based wireless sensor networks
Distributed frameworks and middleware for the Internet of Things
GPU, multicore, and many-core intelligent computing
Intelligent grid
Intelligent high-performance architectures
Context-aware intelligent computing
Virtualization infrastructures for intelligent computing

ABOUT MIR LABS

Machine Intelligence Research Labs (MIR Labs), USA is a global non-profit academic consortium focused on innovation and research excellence. MIR-Labs network comprises of several leading academicians and scientists from the Universities and Industry from different continents.

PUBLICATIONS

All accepted papers will be published by Springer in the Lecture Notes in Networks and Systems", which is currently indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH and SCImago.

PAPER SUBMISSION

Conference adopts Microsoft CMT as submission system, available at the following link:

<https://cmt3.research.microsoft.com/IBICA2023>

REGISTRATION

Authors from Outside India

Regular registration:

US\$ 200.00(offline)

US\$ 150.00(online)

Extra paper : US\$ 125.00 / Paper

Extra page US\$ 20.00 / Page

Authors from India

Regular registration: INR 6000.0

Extra paper : INR 6000.0 / Paper

Extra page INR 1000.0 / Page

On-site (spot) registration for Conference Attendees:

ResearchScholars/PG Students : INR 1000.0

UG Students : INR 700.0

IMPORTANT DATES

Paper submission due : **October 20,2023**

Notification of paper acceptance : **October 31, 2023**

Registration and Final manuscript due : **November 10, 2023**