IEEE Sección Costa Rica

IWOBI 2018 Costa Rica

International Work Conference on Bioinspired Intelligence

DATE:
July 18–20, 2018
LOCATION:
San Carlos (Costa Rica)

Paper Submission Deadline: April 30, 2018
Notification of Acceptance: May 28, 2018
Final paper Submission and Early Registration: June 11, 2018
Registration Limit: June 25, 2018
More information: iwobi.ulpgc.es/2018/
Email: iwobi2018@tec.ac.cr

TOPICS

The contents of the conference will be organized in three sessions: a regular session and two special track sessions.

REGULAR SESSION

Topics of interest include, but are not limited to:

- Optimization and metaheuristic
- Biomathematics and Biostatistics
- Numerical Methods and Differential equations modeling
- Pattern Recognition and Classification
- Machine learning and Computational Intelligence Techniques
- Robotics
- Signal Processing and Analysis
- Computer vision
- Intelligent Networks
- Bioinformatics
- Computational anatomy
- Natural sounds and Speech Recognition
- Models of biological learning
- Brain-machine interfaces
- Speech and handwriting recognition

SPECIAL TRACK ON HIGH PERFORMANCE COMPUTING FOR NATURAL AND HEALTH SCIENCES

Topics of interest include, but are not limited to:

- Parallel Algorithms
- Parallel Programming Techniques
- Large Scale Distributed Systems
- High Performance Applications and Tools
- Multicore Architectures and Accelerators
- Grid and Cloud Computing, and Federations
- HPC Infrastructure and Datacenters
- Scientific and Industrial Computing
- Big data, Data Management and Visualization

SPECIAL TRACK ON BIOINFORMATICS AND SYSTEMS BIOLOGY

Topics of interest include, but are not limited to:

- Dynamic models of metabolic, signaling and gene expression networks, Flux Balance Analysis
- Improvements in genome assembly
- Biological network reconstruction and analysis
- Biomarker discovery and Disease classification
- Next-generation sequencing, copy number and gene expression analysis, Proteomics, Pharmacogenomics, epigenomics & other omics, Functional genomics
- Molecular evolution and phylogeny
- Protein folding and Protein docking
- Translational bioinformatics and Immunoinformatics
- Microbiomes applied to the field of conservation biology, disease and health.
- Metagenomics of unusual environments
- Applications of transcriptomics to study genome evolution and adaptation

Organized by:

TEC | Tecnológico de Costa Rica

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Supported by:

Parma Group · PRIS Lab Pattern Recognition & Intelligent Systems Laboratory · IDeTIC · Laboratorio de Quimiosensibilidad Tumoral LQT · CeNAT Centro Nacional de Alta Tecnología · Red Bio Aplicada · CIET Centro de Investigación en Enfermedades Tropicales · EMB

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