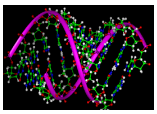
Call for Papers



BIBE

Center of Assistive Research Technologies

23rd International Conference on BioInformatics and BioEngineering

VIRTUAL CONFERENCE, Dec. 4-6, 2023, USA

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AIM & SCOPE

The series of BIBE Conferences, founded in 2000, is the longest-running IEEE Conference of its kind by inspiring many similar venues. The 23rd annual IEEE International Conference on Bioinformatics and Bioengineering aims at building synergies among the complementary disciplines of Bioinformatics, Bioengineering and Biomedical. These synergies have delivered advances for understanding a wide range of complex issues and problems in the fields of medicine, bioengineering and biological systems, health environmental science, public healthcare, food, forensics, wearable and assistive devices and more. These fields have improved the human condition by helping us understand living organisms at multiple levels, developing innovative implants and bio-prosthetics, and by improving tools and techniques for the detection, prevention and treatment of diseases. The BIBE series provide a common platform for the cross fertilization of ideas and for shaping knowledge and scientific achievements by bridging these disciplines into an interactive and engaging forum. Keeping this objective in mind, BIBE solicits original contributions in the following non-exclusive lists of areas:

TOPICS (not Limited)

BIOINFORMATICS/COMPUTATIONAL-BIOLOGY

- Biological Databases, Query Languages, Interoperability, Ontologies and Data Mining
- Sequence Search, Alignment, and Characterization
- Protein Structure Prediction
- Protein-ligand modelling, docking, and screening
- Drug-drug interaction modelling
- Molecular Evolution and Phylogeny
- Systems biology including: Genomics, Transcriptomics, Proteomics, Metabolomics, Metagenomics, Epigenetics, etc.
- Multi-omics data fusion and analysis and Visualization
- Biomarkers of Toxicity
- Computational neuroscience
- Cell Computing
- Bio-Imaging
- Signalling and Computation

BIOMEDICAL/BIOENGINEERING

- Engineering Models in Bio-Medicine
- Assisted Intervention Systems
- Medical Robotics
- Nano-Medicine
- Nano-Mechanisms for Molecular Systems
- Neuro-Computing
- Biomedical & Biological Sensors
- Cell & Tissue Engineering
- Molecular and Cellular Systems
- Body's and Cell's Bio-signatures
- Neuro-Cognitive Engineering
- Biomedical Image Processing & Analysis
- Microarray Technologies
- Biomedical Data Engineering
- Biomaterials
- Bioengineering Applications for people with disabilities and the elderly
- Wearable & Implanted devices/sensors
- Ambient Systems

PAPERS SUBMISSION
The submissions should contain original, high quality, not submitted or published elsewhere work. Papers should be submitted electronically (through BIBE web site) in **.pdf** format and should be conformed to IEEE specifications (single-spaced, double-column, 10-point font size, up to 8 pages).

PAPERS PRESENTATION
Each accepted paper should be presented by one of the authors and accompanied by at least one full registration fee payment, to guarantee publication in the proceedings. **All accepted papers will be included in proceedings of BIBE 2023 that will be published by the IEEE Computer Society**.

DOCTORAL SHORT PRESENTATIONS
Doctoral students will have the opportunity to present (in poster e-form) and share their research work (special arrangement) Also**, 2 BIBE Best Papers (BI & BE) will be selected** and numerous **Best Student papers** will be also announced during the Conference.

SPECIAL ISSUES
Extended versions of the best papers will be invited for publication in special issues **IEEE Journals**, and **Int. Journal on AI Tools.**

CONTACT INFORMATION
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PAPERS SUBMISSION: Sept, 5, 2023
PAPERS NOTIFICATION: Sept. 25, 2023
CAMERA READY: Oct., 15, 2023