19th International Conference on BioInformatics and BioEngineering  
*Oct. 28-30, 2019, Athens, Greece*

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**Aim & Scope**
The series of BIBE Conferences was found in 2000 and BIBE is the first leading Conference of its kind in IEEE/Internationally inspiring others to follow its path. The 19th annual IEEE International Conference on Bioinformatics and Bioengineering aims at building synergy between Bioinformatics and Bioengineering/Biomedical, two complementary disciplines that hold great promise for the advancement of research and development in complex medical and biological systems, agriculture, environment, public health, drug design. Research and development in these two areas are impacting the science and technology in fields such as medicine, food production, forensics, etc. by advancing fundamental concepts in molecular biology, by helping us understand living organisms at multiple levels, by developing innovative implants and bio-prosthetics, and by improving tools and techniques for the detection, prevention and treatment of diseases. The BIBE series provides a common platform for the cross fertilization of ideas, and for shaping knowledge and scientific achievements by bridging these two very important and complementary disciplines into an interactive and attractive forum. Keeping this objective in mind, BIBE solicits original contributions in the following non-exclusive lists of areas:

**Topics (not limited to):**

### BIOINFORMATICS
- Bio-molecular & Phylogenetic DBs
- Query Languages, Interoperability, Bio-Ontology and Data Mining, Big data
- Classification of Genes
- Sequence Search and Alignment
- Protein Structure Prediction and Molecular Evolution and Phylogeny
- Functional Genomics, Proteomics
- Drug Discovery & Computational Biology
- Gene Expression Analysis Bioinformatics Engineering
- Big-Data Visualization
- Systems Biology
- Algorithms, Modelling and Simulation of Molecules and Bio-sets
- Biomarkers of Toxicity
- Bio-Imaging
- Signalling and Computation

### BIOENGINEERING/BIOMEDICAL
- Engineering Models in Bio-Medicine
- Computer Assisted Intervention Systems
- Medical Robotics
- Nano-Medicine
- Nano-Mechanisms for Molecular Systems
- Bio-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 and Implanted sensors

**Paper 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 conform to IEEE specifications (single-spaced, double-column, 10-point font size, up to 8 pages).

**Paper 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 2019 that will be published by the IEEE.

**PhD Presentations and Best Papers**
Doctoral students will have the opportunity to present (in poster form) and share their research work during the conference (special arrangement) Also, Best Student papers Awards will be given in BIBE.

**Special issues**
Extended versions of the best papers of the conference will be invited for publication in special issues in IEEE Journal Biomedical Health Informatics and Int. Journal on AI Tools

**HACKTHON Oct. 27-28, 2019**
Special Sessions and Workshops Oct. 27, 2019