IEEE 18th International Conference *on*
BioInformatics *and* BioEngineering

October 29 – 31, 2018 ▪ Taichung, Taiwan

http://bibe2018.asia.edu.tw

Call for Papers

Founding Steering Committee
Nikolaos G. Bourbakis
Wright State University, USA

BAIF Chair
Despina Kavraki, BAI Foundation, USA

General Co-Chairs
Jean-Claude Latombe
Stanford University, USA
Hideo Matsuda
Osaka University, Japan
Chi-Ren Shyu
University of Missouri, USA
Jeffrey J.P. Tsai
Asia University, Taiwan

Program Co-Chairs
Tatsuya Akutsu
Kyoto University, Japan
Sheila A. Grant
University of Missouri, USA
Ka-Lok Ng
Asia University, Taiwan

Keynote Speakers
Scott L. Delp
Stanford University, USA
Lydia Kavraki
Rice University, USA
Pui-Yan Kwok
Academia Sinica, Taiwan
Wen-Hsiung Li
Academia Sinica, Taiwan
Antonios Mikos
Rice University, USA
Yusuke Nakamura
University of Chicago，USA

Finance Chair
Rong-Ming Chen
National University of Tainan, Taiwan

Publicity Co-Chairs
Wen-Thong Chang*
Jing-Doo Wang*

Publication Chair
Rouh-Mei Hu*

Registration and Web Chair
Han C.W. Hsiao*

Local Arrangement Chair
Anthony Y.H. Liao*

* Asia University, Taiwan

The series of BIBE Conferences was initiated in 2000 and is the first of its kind in IEEE inspiring others to follow its path. The 18th annual IEEE International Conference on Bioinformatics and Bioengineering aims at building synergy between Bioinformatics and Bioengineering, 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:

Bioinformatics
- AI, Big Data techniques in Bioinformatics
- Algorithms, Modelling of Biosystems
- Biomarkers of Toxicity
- Bio-molecular & Phylogenetic DBs
- Biomedical Image Processing & Analysis
- Blockchain technology in healthcare
- Data Mining & Visualization
- Drug Design, Discovery, Repositioning
- Molecular Evolution and Phylogeny
- NGS Analysis
- Omics - Genomics, Epigenetics, Metagenomics, Transcriptomics, Proteomics, Metabolomics
- RNA Sequence & Structure analysis
- Semantic Computing, Bio-Ontology
- Sequence Search and Alignment
- Pan-cancer study
- Protein Structure Prediction and Molecular Simulation

Bioengineering
- Biological Systems and Models
- Biomedical & Biological Sensors
- Biomedical Data Engineering
- Bioelectronics, Biomaterials, Biooptics
- Bioengineering Applications for people with disabilities and the elderly
- Body's and Cell's Bio-signatures
- Cell Engineering
- Computer Assisted Intervention Systems
- Engineering Models in Bio-Medicine
- Medical Robotics
- Nano-Medicine
- Nano-Mechanisms for Molecular Systems
- Nano-Bio-Computing
- Neuro-Engineering
- NGS technology
- Tissue Engineering
- 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 2018 web site) in .pdf format and should conform to IEEE specifications (single-spaced, double-column, 10-point font size, up to 6 pages). Any Chinese national author holding a China passport, please enter your Chinese name during the submission.

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 2018 that will be published by the IEEE.

Important Dates

Workshop proposal	March 31, 2018
Workshop notification	April 10, 2018
Paper Submission	June 30, 2018
Acceptance Notification	July 31, 2018
Camera-ready Submission	August 31, 2018

Further Information
Tatsuya Akutsu, takutsu@kuicr.kyoto-u.ac.jp
Sheila A. Grant, grantsa@missouri.edu
Ka-Lok Ng, ppiddi@gmail.com

IEEE BIBE 2018 Program Co-Chairs