IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology

July 9th-11th 2019, Certosa di Pontignano (Siena), Tuscany (Italy)

This conference has become a major technical event in the field of Computational Intelligence and its application to problems in biology, bioinformatics, computational biology, chemical informatics, bioengineering and related fields. It provides a global forum for academic and industrial scientists to discuss and present their latest research findings from theory to applications.

Topics of interest include, but are not limited to:

- Single cell and bulk transcriptomics
- MicroRNA analysis
- Molecular sequence alignment and analysis
- Metabolic pathway analysis
- Structure prediction and folding
- Epigenomics
- Metagenomics
- Machine learning and artificial intelligence in bioinformatics
- Modelling, simulation, and optimization of biological systems
- Regulatory networks reconstruction/robustness/evolvability
- Pattern recognition/data mining/optimization methods in Bioinformatics
- Visualization of large biological data sets
- Biomedical data modelling/data mining/model parametrization
- Biomarker discovery and development
- Personalized medicine and treatment optimization
- Big data analysis and tools for biological and medical data
- Health data acquisition/analysis/mining
- Healthcare information systems/knowledge representation/reasoning
- Parallel/high performance computing
- Medical imaging and pattern recognition
- Biopharmaceutical manufacturing
- Closed-loop optimization methods/platforms
- Brain computer interface

Prospective authors are invited to submit papers of 2 to 4 pages (short papers) or of 5 to 8 pages (complete papers) including results, figures and references. Submission details can be found at: https://cibcb2019.icas.xyz/

Each paper will be peer-reviewed. Accepted papers will be published in the conference proceedings and will be indexed in IEEE Xplore. Submission implies the willingness of at least one of the authors to register (https://cibcb2019.icas.xyz/registration/) and present the paper at the conference.

Interested authors are also invited to submit special session proposals, which should contain a title, motivation and scope as well as a biosketch of the organizers, to Prof. Barbara Di Camillo by email Email: barbara.dicamillo@unipd.it.

Participants will be accommodated in the Certosa di Pontignano, which is also the venue of the Conference, where rooms and apartments are available. Rooms will be assigned as availability permits: the most charming rooms tend to be booked fast and it is recommended that prospective participants enroll early to help ensure the best accommodation (https://cibcb2019.icas.xyz/accommodation/).