



general chair

Giuseppe Nicosia (UK)

program chair

Barbara Di Camillo (Italy)

finance chair

Renato Umeton (USA)

technical co-chairs

Richard Allmendinger (UK)

Simone Furini (Italy)

Emanuele Giordano (Italy)

publicity/proceeding chairs

Giacomo Baruzzo (Italy)

Alessandro Zandonà (Italy)

local chair

Gabriele Cevenini (Italy)

tutorial speaker

Francesca Finotello (Austria)

keynote speakers

Pierre Baldi (USA)

Riccardo Bellazzi (Italy)

Thomas Keane (UK)

special sessions submissions

November 10, 2018

paper submission

February 15, 2019

final paper submission

May 31, 2019

e-mail contact

ieee-cibcb-2019@icas.xyz

web-site

<https://cibcb2019.icas.xyz>

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 or **poster abstracts**.

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 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: 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.