



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

General Chair:

Giuseppe Nicosia (UK)

Program Chair:

Barbara Di Camillo (Italy)

Finance Chair:

Renato Umerton (USA)

Technical Co-Chairs:

Richard Allmendinger (UK)

Simone Furini (Italy)

Emanuele Giordano (Italy)

Special session Chairs:

Cristiana Corsi (Italy)

Stefano Severi (Italy)

Publicity Chairs

Giacomo Baruzzo (Italy)

Alessandro Zandonà (Italy)

Local Chair:

Gabriele Cevenini (Italy)

Important Dates:

Special sessions submissions:

November 10, 2018

Paper submission:

February 15, 2019

Final paper submission:

May 31, 2019

Any questions can be sent to:

ieee-cibcb-2019@icas.xyz

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/>).

