![iABC logo]

CALL FOR PAPERS

International Applied Bioinformatics Conference
(iABC'20)

www.iabconference.com

Istanbul, Turkey
October 1 - 3, 2020

SCOPE

The first *international Applied Bioinformatics Conference* (iABC'20) will serve as an excellent international convention for sharing knowledge, challenges and results in applied research in Bioinformatics and Informatics. The conference especially welcomes work centered on the application of Bioinformatics concepts and algorithms for biological knowledge generation and welcomes topics relating to challenges of biological applications and use cases which are still not solved properly in order to open new directions for further informatics research. iABC'20 also invites papers relating to cutting edge information technology applied on biological use cases, Bioinformatics tools/workflows, best practices, calls for novel algorithms, translation of novel algorithms, and workshops/hands-on tutorials of novel Bioinformatics tools and workflows.

TOPICS

Topics of interest include, but are not limited to:

- eHealth, diagnostics and clinical applications Track
  - Bio-Data Mining
  - Biomedical Computing
  - Biomedical Intelligence

- ○ Biomedical Signal and Image Analysis
- ○ Biomedical Text Mining and Ontologies
- ○ Bio-Visualization
- ○ Clinical Data Analysis
- ○ Clinical Decision Support and Informatics
- ○ Electronic Health Record
- ○ Healthcare Information Systems
- ○ Health Data Acquisition, Analysis and Mining
- ○ Healthcare Knowledge Representation & Reasoning
- ○ Medical Informatics
- ○ Medical Robotics

- ● Applied Bioinformatics Track
  - ○ Workflow Management / Bioinformatics Analysis Pipelines
  - ○ Bioinformatics Algorithms
  - ○ Biological Databases
  - ○ Biological Sensors
  - ○ Computational Modeling and Data Integration
  - ○ Functional Genomics, Proteomics
  - ○ Gene Expression Array Analysis
  - ○ Genome-Phenome Analysis
  - ○ Machine Learning for Biomedical Data Analysis
  - ○ Metabolic Pathway Analysis
  - ○ Modelling of Molecular, Cellular, and Organ Pathways
  - ○ Nano-Bio-Computing
  - ○ Nano-Medicine
  - ○ Neuro-Engineering
  - ○ Pattern Recognition and Soft Computing Techniques
  - ○ Systems Biology
  - ○ Tissue Engineering
  - ○ Translational Bioinformatics

- ● Bio-Challenges Track
  - ○ Challenging Biological Use Cases
  - ○ Hands On discussion
  - ○ Biomarker Discovery
  - ○ Cell Engineering
  - ○ Drug Discovery
  - ○ Mass Spectrometry
  - ○ DNA Sequencing
  - ○ Visualization
  - ○ Data Transfer

TUTORIALS

- ○ Smart Lab Applications
- ○ Mass Spectrometry
- ○ Pipelining

WORKSHOPS

- ○ Modern Computational Hardware in Bioinformatics (David)
- ○ String Algorithms paradigms in Bioinformatics (Giuseppe Lancia)
- ○ Jens Allmer/Malik Yousef Workshop
- ○ Machine Learning for Biomedical Data Analysis Workshop (Hasan Ogul)
- ○ *Biological Knowledge Discovery from Big Data* (BIOKDD'19) (Mourad Elloumi)
- ○ …...

PAPER SUBMISSION DETAILS

Authors are invited to submit electronically original contributions in English. Submitted papers should not exceed 10 pages in pdf in LNCS format (http://www.springer.de/comp/lncs/authors.html). One of the authors of an accepted paper must register to iABC'20 conference and present the paper. For paper registration and electronic submission see http://confdriver.ifs.tuwien.ac.at/dexa2019/ starting from January 2020.

The proceedings of iABC'20 conference will be published by **Springer** in the CCIS series.

ACCEPTED PAPERS

Selected accepted conference papers will be published in a special issue in *Journal of Integrative Bioinformatics* (JIB) < https://www.degruyter.com/view/j/jib >

IMPORTANT DATES

Submission of abstracts: June 01, 2020
Submission of full papers: June 08, 2020
Notification of acceptance: July 22, 2020
Camera-ready copies due: August 01, 2020
Early registration: August 01, 2020

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(To be completed)

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