

CSBio 2021



THE 12TH INTERNATIONAL CONFERENCE ON COMPUTATIONAL SYSTEMS-BIOLOGY AND BIOINFORMATICS

<https://csbio2021.it.kmitl.ac.th>

14-15 October 2021

FULLY VIRTUAL CONFERENCE

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csbio2021@it.kmitl.ac.th

IMPORTANT DATES:

Paper Submission: 31 August 2021

Notification of Acceptance: 10 September 2021

Camera-ready Submission: 20 September 2021

Conference Date: 14-15 October 2021 (Fully Virtual)

ABOUT

With the advancement in next-generation molecular technology in generating the highthroughput "omics" data, life science has come to the era of "big data". To extract biological knowledge from the data and translate it into benefits for society (e.g., better medicine and healthcare), novel and advanced computational tools are needed for data analysis. The current trends are to leverage AI and application of cognitive computing that combines domain knowledge with machine learning.

CALL FOR CONTRIBUTED PAPERS

The call for paper targets contribution in the field of computational approaches designed to face the challenges aroused by biological systems. It aims at giving an overview of the cutting-edge methods and tools to address biological systems. CSBio 2021 would like to invite researchers and industrial counterparts to meet at this event to exchange ideas and stimulate research collaborations.

TOPICS OF INTEREST

Topics of interest include, but are not limited to:

- Adaptive computation in bioinformatics
- Bio-data visualization
- Bio-inspired computing
- Biological network reconstruction and analysis
- Biomarker discovery
- Computational systems biology
- Coronavirus disease
- Disease classification
- DNA, RNA and protein sequence analysis
- Drug discovery and validation
- Epigenetics/epigenomics
- Epidemiology
- Formal validation of biological systems
- Functional genomics
- Gene expression analysis
- Health informatics
- Human-centric applications
- Medical and biomedical informatics
- Metagenomics data analysis
- Modeling and simulation of biological processes, pathways, etc.
- Molecular evolution and phylogeny
- Next-generation and Thirdgeneration sequencing
- Parallel and distributed computing for life science
- Population genetics
- Proteomics & other omics
- Protein folding
- Translational bioinformatics

SUBMISSION GUIDELINES

Submitted papers should describe original work that does not overlap with papers that have been published or that are simultaneously submitted to a journal, conference, or workshop with refereed proceedings. Papers should be written in English, formatted according to the ACM SIG style (sigconf template). Full papers need to be at least 5 pages and should not exceed 10 pages and must be submitted via EasyChair system. Short papers of up to 4 pages may be considered as well as extended abstracts of up to 2 pages. Papers must be submitted electronically as PDF files via EasyChair at <https://easychair.org/conferences/?conf=csbio2021>.

More information about the formatting of the paper can be found at <http://www.acm.org/publications/article-templates/proceedings-template.html/>

REVIEW PROCESS

Papers must be submitted electronically as PDF files via EasyChair. The limit for submissions is 10 pages. References and appendices will not be counted in the page limit during the initial submission process. All submissions will be peer-reviewed and subjected to single-blind review process by at least two reviewers; full submissions will be reviewed by at least three reviewers. All accepted papers must be presented at the conference, either in person or via a video recording; the presenter or a representative must attend virtually at the allocated time slot for Q&A. More information about the formatting of the paper can be found at <http://www.acm.org/publications/article-templates/proceedings-template.html/>

PROCEEDINGS

The CSBio 2021 proceedings will be published in electronic form by ACM ICPS, which is indexed by Scopus, ISI Web of Science, EI Compendex, and other major databases, and will be available at the ACM Digital Library. The ISBN number assigned to CSBio2021 is 978-1-4503-8510-7.

Selected paper will be proposed for further extension and published in the Journal of Bioinformatics and Computational Biology, indexed by ISI, Scopus.

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