

Special Issue on Bioinformatics and Computational Biology

International Journal of Computational Science

Call For Papers

Manuscript submissions are invited for a special issue of The International Journal of Computational Science (<http://www.gip.hk/ijcs/>). The special issue will feature articles on the topic of *bioinformatics*.

Bioinformatics, which combines biology with computer science, statistics and mathematics, is one of the fastest growing disciplines in biological research and in computer science research. This discipline arose out of a need to rapidly expand and critique large volumes of biological data, especially in the area of genomics. Modern biological and biomedical research involves a significant informatics component. Thus, bioinformatics research problems are critical to enhancing many areas of biology and biomedicine.

We are seeking high quality manuscripts that contain unpublished research results in all areas of bioinformatics. We are especially interested in research that addresses the following topics:

- Sequence analysis and alignment
- Microarray data analysis
- Comparative genomics
- Functional genomics
- Gene regulation and transcriptomics
- Gene/protein function prediction
- Bioinformatic and biomedical ontologies
- Disease gene and pathway discovery
- Pathway and network bioinformatics
- Phylogenetics
- Bioinformatics of diseases
- Bioinformatics of drugs
- Metagenomics
- Genetics simulators
- Genome-wide patterns
- Tracing the migration patterns of humanity
- Assembling the tree of life
- Machine epigenesis
- Evolutionary models
- Visualization in bioinformatics
- Data mining, pattern recognition, and machine learning in bioinformatics

Manuscripts should be submitted electronically in PDF or Word formats to either of the guest editors of the special issue. The submission email subject is suggested to be "Submission to IJCS". All submitted papers will be peer-reviewed on the originality, relevance, significance, and readability (in English). There are no page charges for the accepted papers in this special issue.

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IMPORTANT DATES

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