

Call for Papers with Extended Deadline: 2007 International Conference on Bioinformatics and Computational Biology (BIOCOMP'07), June 25–28, 2007, USA

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Extended Paper Submission Deadline: March 4, 2007

The 2007 International Conference on Bioinformatics
and Computational Biology
BIOCOMP'07

Date and Location: June 25–28, 2007, Las Vegas, USA

Academic Sponsors: Research Labs at
MIT, Harvard, Purdue, Univ. of Texas at Austin, ...
(see below for a more complete list of sponsors)

URL: <http://www.worldacademyofscience.org/worldcomp07/ws/BIOCOMP07>

You are invited to submit a full paper for consideration.
All accepted papers will be published in the conference proceedings.

SCOPE: Topics of interest include, but are not limited to, the
following:

- O Software environments for bioinformatics
- O RNA and DNA structure and sequencing
- O Gene regulation
- O Gene expression databases
- O Gene pattern discovery
- O Gene identification
- O Genetic network modeling and inference
- O Gene expression analysis
- O Biomedical electronics
- O Biomedical engineering
- O Mathematical biology
- O Graph theory and bioinformatics
- O Microarrays

- O Molecular dynamics and simulation
- O Molecular sequence classification, alignment and assembly
- O Molecular sequence databases
- O Molecular structure databases
- O Image processing in medicine and biological sciences
- O Sequence analysis and alignment
- O Cheminformatics
- O Informatics and Statistics in Biopharmaceutical Research
- O Software tools for computational biology
- O Comparative genomics
- O Protein modeling
- O Molecular interactions
- O Metabolic modeling and pathways
- O Evolution and phylogenetics
- O Macromolecular structure prediction
- O Proteomics
- O Protein folding and fold recognition
- O Medical informatics
- O Epidemic models
- O Biological data mining
- O Knowledge discovery
- O Pattern classification and recognition
- O Structural and functional genomics
- O Hidden Markov Model techniques
- O Amino acid sequencing
- O Stochastic modeling
- O Bio-ontologies
- O Computational drug discovery
- O Biological databases and information retrieval
- O Biological data visualization
- O Biological data integration
- O Evolution of regulatory genomic sequences
- O Experimental studies and results
- O Applications
- O Application of computational intelligence in medicine and biological sciences (artificial neural networks, fuzzy logic, and evolutionary computing).
- O High-performance computing as applied to natural and medical sciences
- O Computer-based medical systems (automation in medicine, ...)
- O Other aspects and applications relating to technological advancements in medicine and biological sciences.

Conference Web site:

<http://www.world-academy-of-science.org/worldcomp07/ws/BIOCOMP07>

Co-Sponsors (a partial list):

Academic Co-Sponsors of WORLDCOMP'07 include:

- Massachusetts Institute of Technology (MIT) Media Laboratory, MIT (Cambridge, Massachusetts)
- Statistical Genomics and Computational Biology Laboratory, Department of Statistics, Harvard University (Cambridge, Massachusetts)
- Texas Advanced Computing Center, The University of Texas at Austin (Austin, Texas)
- Statistical and Computational Intelligence Laboratory of Purdue University (West Lafayette, Indiana)
- University of Iowa's Medical Imaging HPC Lab (Iowa City, Iowa)
- Institute for Informatics Problems of the Russian Academy of Sciences, Moscow, Russia);

Other Co-sponsors include:

- HPCwire
- GRIDtoday
- STEM Education Society
- HPCSoft, HPC Software Inc.
- International Technology Institute
- H2cM – Hodges' Health, UK

Submission of Papers:

Prospective authors are invited to submit their full paper (about 5 to 8 pages – single space, font size of 10 to 12) to H. R. Arabnia by Mar. 4, 2007 (hra@xxxxxxxxxx). E-mail submissions in MS Doc or PDF formats are preferable (postal mail submissions are also fine.) All reasonable typesetting formats are acceptable (later, the authors of accepted papers will be asked to follow a particular typesetting format to prepare their papers for publication.)

The length of the Camera-Ready papers (if accepted) will be limited to

7 (IEEE style) pages. Papers must not have been previously published

or currently submitted for publication elsewhere. The first page of

the draft paper should include: title of the paper, name, affiliation,

postal address, email address, and telephone number for each author.

The first page should also identify the name of the author who will be presenting the paper (if accepted) and a maximum of 5 topical keywords that would best represent the content of the paper.

Each paper will be refereed by two experts in the field who are independent of the conference program committee. The referees' evaluations will then be reviewed by two members of the program committee who will recommend a decision to the co-chairs of the track.

The track chairs will make the final decision. Lastly, the Camera-Ready papers will be reviewed by one member of the program committee.

Members of Program and Organizing Committee:

The Program Committee includes members of chapters of World Academy of Science (chapters: bioinformatics, supercomputing; scientific computing; artificial intelligence; imaging science; databases; simulation; software engineering; embedded systems; internet and web technologies; communications; and computer security.) Many members of the program committee include renowned leaders, scholars, researchers, scientists and practitioners of the highest ranks; many are directors of large research laboratories, IEEE Fellows, heads/chairs of departments, deans and provosts. Refer to the following for the list of committee members:
<http://www.world-academy-of-science.org/worldcomp07/ws/BIOCOMP07/committee>

Important Dates:

March 4, 2007: Submission of full/draft papers (about 5 to 8 pages)

April 4, 2007: Notification of acceptance

April 27, 2007: Camera-Ready papers and Registration due

June 25-28, 2007: The 2007 International Conference on Bioinformatics

and Computational Biology (BIOCOMP'07)