

CALL FOR PAPERS

11TH WORKSHOP ON ALGORITHMS IN BIOINFORMATICS



WABI 2011



Saarbrücken, Germany, September 5-7, 2011

Key Dates:

SUBMISSION	MAY 13, 2011
NOTIFICATION	JUNE 2, 2011
FINAL VERSION	JUNE 15, 2011
WORKSHOP	SEPTEMBER 5-7, 2011

Keynote Speaker:

VINCENT MOULTON, U. OF EAST ANGLIA, UK

Program Committee:

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Gene W. Myers, Janelia Farms Research, USA
Itzik Peer, Columbia U., New York, USA
Nadia Pisanti, U. Pisa, Italy
Teresa Przytycka, NCBI, NLM, NIH, USA (co-chair)
Knut Reinert, Freie U. Berlin, Germany
Juho Rousu, University of Helsinki, Finland
Yvan Saeys, Ghent U., Belgium
Marie-France Sagot, INRIA, U. Lyon, France (co-chair)
Cenk Sahinalp, Simon Fraser U., Canada
David Sankoff, U. of Ottawa, Canada
Thomas Schiex, INRA Toulouse, France
Russell Schwartz, Carnegie Mellon U., USA
Stefan Schuster, U. Jena, Germany
Charles Semple, Canterbury U., New Zealand
Mona Singh, Princeton U., USA
Saurabh Sinha, U. of Illinois, USA
Jörg Stelling, ETH Zurich, Switzerland
Leen Stougie, Free U. Amsterdam, The Netherlands
Jens Stoye, U. of Bielefeld, Germany
Michael Stumpf, Imperial College London, UK
Jerzy Tiuryn, U. of Warsaw, Poland
Hlne Touzet, LIFL U. Lille 1, France
Alfonso Valencia, GBCCE-CNIO, Spain
Lusheng Wang, City U. of Hong Kong, Hong Kong
Chris Workman, Technical U. Denmark, Denmark
Alex Zelikovsky, Georgia State U., USA
Louxin Zhang, National U. Singapore, Singapore
Michal Ziv-Ukelson, Ben Gurion U. Negev, Israel
Elena Zotenko, Garvan Institute, Australia

Web site (provisional):

<http://pbil.univ-lyon1.fr/members/sagot/htdocs/wabi2011/wabi2011.html>

WABI will be part of ALGO 2011, hosted by the Max-Planck-Institut für Informatik, Saarbrücken. WABI is sponsored by *EATCS*, the European Association for Theoretical Computer Science, and *ISCB*, the International Society for Computational Biology.

Scope:

The workshop covers research in all aspects of algorithmic work in bioinformatics. The emphasis is on discrete algorithms and machine-learning methods that address important problems in molecular biology, that are founded on sound models, that are computationally efficient, and that have been implemented and tested in simulations and on real datasets. The goal is to present recent research results, including significant work-in-progress, and to identify and explore directions of future research.

Topics:

Original research papers (including significant work-in-progress) or state-of-the-art surveys are solicited in all aspects of algorithms in bioinformatics, including, but not limited to:

- Exact, approximate, and machine-learning algorithms for sequence analysis, gene and signal recognition, alignment and assembly, molecular evolution, structure determination or prediction, gene expression, gene networks, proteomics, functional genomics, and drug design.
- Methods, software, and dataset repositories for development and testing of such algorithms and their underlying models.
- High-performance computing approaches to computationally hard learning and optimization problems in bioinformatics.

Submissions:

Submissions must be formatted in LaTeX using the Springer LNCS style and must not exceed 12 pages. Each paper must contain a succinct statement of the issues and of their motivation, a summary of the main results, and a brief explanation of their significance, all accessible to non-specialist readers.

All submissions must be made online, through the EasyChair submission system within the WABI'11 submission site. You need to register on that web site before submitting; you may update your submission(s) up to the last minute. A standard PDF file must be received by 23:59 (GMT) on May 10, 2011 in order for your submission to be considered. In case of problems, authors may, by prior arrangement, email a PDF file to the chairs, Teresa Przytycka and Marie-France Sagot.

Simultaneous submission to another conference with published proceedings is not permitted, but simultaneous submission to a journal is allowed, provided that the authors notify the program chairs; if published in a journal, such a contribution will be published as a short abstract in the WABI proceedings.

Proceedings:

Proceedings will be published in the Springer series *Lecture Notes in Bioinformatics*; papers will be allotted 12 pages.

Previous proceedings of WABI appeared in *LNCS/LNBI* volumes 2149 (Aarhus 2001), 2452 (Rome 2002), 2812 (Budapest 2003), 3240 (Bergen 2004), 3692 (Mallorca 2005), 4175 (Zurich, 2006), 4645 (Philadelphia 2007), 5251 (Karlsruhe 2008), 5724 (Philadelphia 2009), and 6293 (Liverpool 2010).

By arrangement with the Editor-in-Chief, selected papers from WABI will be invited for an extended publication in a special issue of the *BMC Algorithms for Molecular Biology*.