

Roderic Guigó  
Dan Gusfield (Eds.)

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# Algorithms in Bioinformatics

Second International Workshop, WABI 2002  
Rome, Italy, September, 2002  
Proceedings



Springer

**Algorithms In Bioinformatics Second International  
Workshop Wabi 2002 Rome Italy September 17-21 2002  
Proceedings**

**Vincent Moulton, Mona Singh**



## **Algorithms In Bioinformatics Second International Workshop Wabi 2002 Rome Italy September 17-21 2002 Proceedings:**

Algorithms in Bioinformatics Roderic Guigo, Dan Gusfield, 2002-09-02 We are pleased to present the proceedings of the Second Workshop on Algorithms in Bioinformatics WABI 2002 which took place on September 17-21 2002 in Rome Italy The WABI workshop was part of a three conference meeting which in addition to WABI included the ESA and APPROX 2002 The three conferences are jointly called ALGO 2002 and were hosted by the Faculty of Engineering University of Rome La Sapienza See <http://www.dis.uniroma1.it/algo02> for more details The Workshop on Algorithms in Bioinformatics covers research in all areas of algorithmic work in bioinformatics and computational biology The emphasis is on discrete algorithms that address important problems in molecular biology genomics and genetics 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 Original research papers including significant work in progress or state of the art surveys were solicited on all aspects of algorithms in bioinformatics including but not limited to exact and approximate algorithms for genomics genetics sequence analysis gene and signal recognition alignment molecular evolution phylogenetics structure determination or prediction gene expression and gene networks proteomics functional genomics and drug design

**Algorithms in Bioinformatics** Roderic Guigo, Dan Gusfield, 2002-10-08 We are pleased to present the proceedings of the Second Workshop on Algorithms in Bioinformatics WABI 2002 which took place on September 17-21 2002 in Rome Italy The WABI workshop was part of a three conference meeting which in addition to WABI included the ESA and APPROX 2002 The three conferences are jointly called ALGO 2002 and were hosted by the Faculty of Engineering University of Rome La Sapienza See <http://www.dis.uniroma1.it/algo02> for more details The Workshop on Algorithms in Bioinformatics covers research in all areas of algorithmic work in bioinformatics and computational biology The emphasis is on discrete algorithms that address important problems in molecular biology genomics and genetics 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 Original research papers including significant work in progress or state of the art surveys were solicited on all aspects of algorithms in bioinformatics including but not limited to exact and approximate algorithms for genomics genetics sequence analysis gene and signal recognition alignment molecular evolution phylogenetics structure determination or prediction gene expression and gene networks proteomics functional genomics and drug design

**Algorithms in Bioinformatics** Roderic Guigó, Dan Gusfield, 2002 **Algorithms in Bioinformatics** Philipp Bücher, Bernard M.E. Moret, 2006-08-30 Here are the refereed proceedings of the 6th International Workshop on Algorithms in Bioinformatics WABI 2006 held in the course of the ALGO 2006 conference meetings The book presents 36

revised full papers addressing all current issues of algorithms in bioinformatics from mathematical tools to experimental studies of approximation algorithms and reports on significant computational analyses For the first time coverage extends to machine learning approaches along with combinatorial optimization

**Algorithms in Bioinformatics** Vincent Moulton, Mona Singh, 2010 *Algorithms in Bioinformatics* Gary Benson, Roderic Page, 2003-09-09 This book constitutes the refereed proceedings of the Third International Workshop on Algorithms in Bioinformatics WABI 2003 held in Budapest Hungary in September 2003 The 36 revised full papers presented were carefully reviewed and selected from 78 submissions The papers are organized in topical sections on comparative genomics database searching gene finding and expression genome mapping pattern and motif discovery phylogenetic analysis polymorphism protein structure sequence alignment and string algorithms

Algorithms in Bioinformatics Ben Raphael, Jijun Tang, 2012-08-29 This book constitutes the refereed proceedings of the 12th International Workshop on Algorithms in Bioinformatics WABI 2012 held in Ljubljana Slovenia in September 2012 WABI 2012 is one of six workshops which along with the European Symposium on Algorithms ESA constitute the ALGO annual meeting and focuses on algorithmic advances in bioinformatics computational biology and systems biology with a particular emphasis on discrete algorithms and machine learning methods that address important problems in molecular biology The 35 full papers presented were carefully reviewed and selected from 92 submissions The papers include algorithms for a variety of biological problems including phylogeny DNA and RNA sequencing and analysis protein structure and others

**Algorithms in Bioinformatics** Steven L. Salzberg, Tandy Warnow, 2009-09-19 These proceedings contain papers from the 2009 Workshop on Algorithms in Bioinformatics WABI held at the University of Pennsylvania in Philadelphia Pennsylvania during September 12-13 2009 WABI 2009 was the ninth annual conference in this series which focuses on novel algorithms that address important problems in genomics molecular biology and evolution The conference emphasizes research that describes computationally efficient algorithms and data structures that have been implemented and tested in simulations and on real data WABI is sponsored by the European Association for Theoretical Computer Science EATCS and the International Society for Computational Biology ISCB WABI 2009 was supported by the Penn Genome Frontiers Institute and the Penn Center for Bioinformatics at the University of Pennsylvania For the 2009 conference 90 full papers were submitted for review by the Program Committee and from this strong field of submissions 34 papers were chosen for presentation at the conference and publication in the proceedings The national program covered a wide range of topics including gene interaction networks molecular phylogeny RNA and protein structure and genome evolution

Algorithms in Bioinformatics Dan Brown, Burkhard Morgenstern, 2014-08-15 This book constitutes the refereed proceedings of the 14th International Workshop on Algorithms in Bioinformatics WABI 2014 held in Wroclaw Poland in September 2014 WABI 2014 was one of seven conferences that were organized as part of ALGO 2014 WABI is an annual conference series on all aspects of algorithms and data structure in molecular biology genomics and phylogeny data analysis The 26 full papers presented

together with a short abstract were carefully reviewed and selected from 61 submissions The selected papers cover a wide range of topics from sequence and genome analysis through phylogeny reconstruction and networks to mass spectrometry data analysis     Algorithms in Bioinformatics Gary Benson,Roderic D. M. Page,2003     **Algorithms in Bioinformatics** Vincent Moulton,Mona Singh,2010-08-25 This book constitutes the refereed proceedings of the 10th International Workshop on Algorithms in Bioinformatics WABI 2010 held in Liverpool UK in September 2010 The 30 revised full papers presented were carefully reviewed and selected from 83 submissions The papers are organized in topical sections on biomolecular structure RNA protein and molecular comparison comparative genomics haplotype and genotype analysis high throughput data analysis next generation sequencing and flow cytometry networks phylogenetics and sequences strings and motifs

**Algorithms in Bioinformatics** Aaron Darling,Jens Stoye,2013-08-16 This book constitutes the refereed proceedings of the 13th International Workshop on Algorithms in Bioinformatics WABI 2013 held in Sophia Antipolis France in September 2013 WABI 2013 is one of seven workshops which along with the European Symposium on Algorithms ESA constitute the ALGO annual meeting and highlights research in algorithmic work for bioinformatics computational biology and systems biology The goal is to present recent research results including significant work in progress and to identify and explore directions of future research The 27 full papers presented were carefully reviewed and selected from 61 submissions The papers cover all aspects of algorithms in bioinformatics computational biology and systems biology     *Algorithms in Bioinformatics* Olivier Gascuel,2001-08-15 This book constitutes the refereed proceedings of the First International Workshop on Algorithms in Bioinformatics WABI 2001 held in Aarhus Denmark in August 2001 The 23 revised full papers presented were carefully reviewed and selected from more than 50 submissions Among the issues addressed are exact and approximate algorithms for genomics sequence analysis gene and signal recognition alignment molecular evolution structure determination or prediction gene expression and gene networks proteomics functional genomics and drug design methodological topics from algorithmics high performance approaches to hard computational problems in bioinformatics

Algorithms in Bioinformatics Mihai Pop,Hélène Touzet,2015-08-27 This book constitutes the refereed proceedings of the 15th International Workshop on Algorithms in Bioinformatics WABI 2015 held in Atlanta GA USA in September 2015 The 23 full papers presented were carefully reviewed and selected from 56 submissions The selected papers cover a wide range of topics from networks to phylogenetic studies sequence and genome analysis comparative genomics and RNA structure

**Algorithms in Bioinformatics** Olivier Gascuel,Bernard M.E. Moret,2003-05-15 This book constitutes the refereed proceedings of the First International Workshop on Algorithms in Bioinformatics WABI 2001 held in Aarhus Denmark in August 2001 The 23 revised full papers presented were carefully reviewed and selected from more than 50 submissions Among the issues addressed are exact and approximate algorithms for genomics sequence analysis gene and signal recognition alignment molecular evolution structure determination or prediction gene expression and gene networks

proteomics functional genomics and drug design methodological topics from algorithmics high performance approaches to hard computational problems in bioinformatics     *Algorithms in Bioinformatics* Raffaele Giancarlo, Sridhar

Hannenhalli, 2007-08-22 The refereed proceedings from the 7th International Workshop on Algorithms in Bioinformatics are provided in this volume. Papers address current issues in algorithms in bioinformatics ranging from mathematical tools to experimental studies of approximation algorithms to significant computational analyses. Biological problems examined include genetic mapping, sequence alignment and analysis, phylogeny, comparative genomics and protein structure.

**Algorithms in Bioinformatics** Inge Jonassen, Junhyong Kim, 2004-09-07 This book constitutes the refereed proceedings of the 4th International Workshop on Algorithms in Bioinformatics WABI 2004 held in Bergen, Norway, in September 2004. The 39 revised full papers presented were carefully reviewed and selected from 117 submissions. Among the topics addressed are all current issues of algorithms in bioinformatics such as exact and approximate algorithms for genomics, genetics, sequence analysis, gene and signal recognition, alignment, molecular evolution, phylogenetics, structure determination or prediction, gene expression and gene networks, proteomics, functional genomics and drug design.     **Algorithms in**

**Bioinformatics** Teresa M. Przytycka, Marie-France Sagot, 2011-08-30 This book constitutes the refereed proceedings of the 11th International Workshop on Algorithms in Bioinformatics WABI 2011 held in Saarbrücken, Germany, in September 2011. The 30 papers presented were carefully reviewed and selected from 77 submissions. They cover aspects of algorithms in bioinformatics, computational biology and systems biology.     *Algorithms in Bioinformatics* Keith Crandall, Jens

Lagergren, 2008-09-18 This book constitutes the refereed proceedings of the 8th International Workshop on Algorithms in Bioinformatics WABI 2008 held in Karlsruhe, Germany, in September 2008 as part of the ALGO 2008 meeting. The 32 revised full papers presented together with the abstract of a keynote talk were carefully reviewed and selected from 81 submissions. All current issues of algorithms in bioinformatics are addressed, reaching from mathematical tools to experimental studies of approximation algorithms and reports on significant computational analyses. The topics range in biological applicability from genome mapping to sequence assembly to microarray quality to phylogenetic inference to molecular modeling.     Algorithms

in Bioinformatics Rita Casadio, 2005-09-27 This book constitutes the refereed proceedings of the 5th International Workshop on Algorithms in Bioinformatics WABI 2005 held in Mallorca, Spain, in September 2005 as part of the ALGO 2005 conference meetings. The 34 revised full papers presented were carefully reviewed and selected from 95 submissions. All current issues of algorithms in bioinformatics are addressed with special focus on statistical and probabilistic algorithms in the field of molecular and structural biology. The papers are organized in topical sections on expression, hybrid methods and time patterns, phylogeny, quartets, tree reconciliation, clades and haplotypes, networks, genome rearrangements, transposition model and other models, sequences, strings, multi-alignment and clustering, clustering and representation and structure, threading and folding.

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