



Algorithms in Computational Molecular Biology: Techniques, Approaches and Applications (Wiley Series in Bioinformatics)

By Mourad Elloumi, Albert Y. Zomaya

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- Sales Rank: #3495975 in eBooks
- Published on: 2011-06-10
- Released on: 2011-06-10
- Format: Kindle eBook

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Editorial Review

From the Back Cover

The most comprehensive, practical overview of algorithms in computational molecular biology

Computational molecular biology has emerged from the Human Genome Project as an important discipline for academic research and industrial application. Due to the exponential growth in the size of biological databases and the increasing intricacy of biological problems, high-performance algorithms are now necessary to deal with errors in biological sequences. Bringing the most recent research into the forefront of discussion, *Algorithms in Computational Molecular Biology* is the first in-depth examination of these important algorithms, which are based on the newest and most improved approaches and techniques in the field.

The book's unique coverage offers both a wide range of information—from the introductory fundamentals right up to the latest, most advanced levels of study—and enough technical depth to be of practical use to working professionals. Organized into seven parts, it addresses:

- Strings processing and application to biological sequences
- Analysis of biological sequences
- Motif finding and structure prediction
- Phylogeny reconstruction
- Microarray data analysis
- Analysis of genomes
- Analysis of biological networks

Also featured are a combination of experiments and simulations that provide not only qualitative but also quantitative insights into this rich field. By covering a wide range of combinatorial problems that arise in computational molecular biology, this book enables researchers, computer scientists, life scientists, mathematicians, graduate students, and senior undergraduates to deal with more complex issues and richer data sets.

About the Author

Mourad Elloumi, PhD, is Associate Professor in Computer Science, Faculty of Economic Sciences and Management of Tunis (Tunisia), and member of the Unit of Technologies of Information and Communication (UTIC). He is the author/coauthor of more than forty publications in international journals and conferences. Professor Elloumi was the guest editor of a special issue on biological knowledge discovery and data mining in *Knowledge-Based Systems* and the coeditor of the proceedings of two international conferences.

Albert Y. Zomaya, PhD, is the Chair Professor of High Performance Computing and Networking in the School of Information Technologies at The University of Sydney (Australia). He is the author/coauthor of eight books and more than 400 publications in technical journals and conferences, and the editor of eight books and eight conference volumes. Professor Zomaya is currently an associate editor for twenty journals, the Founding Editor of the Wiley Series on Parallel and Distributed Computing, and a Founding Coeditor of

the Wiley Series in Bioinformatics.

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