Grid Computing for Bioinformatics and Computational Biology
El-Ghazali Talbi (Editor), Albert Y. Zomaya (Editor)


DESCRIPTION

The only single, up-to-date source for Grid issues in bioinformatics and biology

Bioinformatics is fast emerging as an important discipline for academic research and industrial applications, creating a need for the use of Grid computing techniques for large-scale distributed applications. This book successfully presents Grid algorithms and their real-world applications, provides details on modern and ongoing research, and explores software frameworks that integrate bioinformatics and computational biology.

Additional coverage includes:

* Bio-ontology and data mining
* Data visualization
* DNA assembly, clustering, and mapping
Grid Computing for Bioinformatics and Computational Biology is an indispensable resource for professionals in several research and development communities including bioinformatics, computational biology, Grid computing, data mining, and more. It also serves as an ideal textbook for undergraduate- and graduate-level courses in bioinformatics and Grid computing.

ABOUT THE AUTHOR

El-Ghazali Talbi, PhD, is a Full Professor in the Computer Science Laboratory at the Université de Lille, Centre National de la Recherche Scientifique, and Institut National de Recherche en Informatique et en Automatique in France. Dr. Talbi has contributed to numerous publications in international journals and conferences and has organized many workshops and sessions discussing parallel and distributed computing for bioinformatics.
Albert Y. Zomaya, PhD, is the CISCO Systems Chair Professor of Internet-working in the School of Information Technologies at the University of Sydney. He also serves as Deputy Director for the Sydney University Biological Informatics and Technology Center and is the author or coauthor of several books and publications.