



Springer

1st
edition

2005, XII, 112 p.

Printed book

Softcover

Printed book

Softcover

ISBN 978-3-540-25422-5

£ 74,99 | CHF 100,50 | 84,99 € |

93,49 € (A) | 90,94 € (D)

Available

Discount group

Science (SC)

Product category

Collection of essays

SeriesTransactions on Computational Systems
Biology**Computer Science : Computation by Abstract Devices**

Priami, Corrado (Editor-in-chief.)

Transactions on Computational Systems Biology I

This is the first issue of a new journal of the LNCS journal subline. The aim of the journal is to encourage inter- and multidisciplinary research in the fields of computer science and life sciences. The recent paradigmatic shift in biology towards a system view of biological phenomena requires a corresponding paradigmatic shift in the techniques from computer science that can face the new challenges. Classical tools usually used in bioinformatics are no longer up to date and new ideas are needed. The convergence of sciences and technologies we are experiencing these days is changing the classical terms of reference for research activities. In fact clear distinctions between disciplines no longer exist because advances in one field permit advances in others and vice versa, thus establishing a positive feedback loop between sciences. The potential impact of the convergence of sciences and technologies is so huge that we must consider how to control and correctly drive our future activities. International and national funding agencies are looking at interdisciplinary research as a key issue for the coming years, especially in the intersection of life sciences and information technology. To speed up this process, we surely need to establish relationships between researchers of different communities and to define a common language that will allow them to exchange ideas and results. Furthermore, expectations of different communities can be merged only by running activities like common projects and experiences.

The Transactions on Computational Systems Biology could be a good forum to help life scientists and computer scientists to discuss together their common goals.

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ISBN 978-3-540-25422-5 / BIC: UY / SPRINGER NATURE: SCI16013

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