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to encourage investigations – and the

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mixture of regularity and irregularity is  
fascinating. A particular pattern seems to  
follow particular rules but these rules  
allow variations. No two shells are

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arrangement...

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including stony corals, hydrocorals,  
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visualization, methods for analyzing 2D

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*The Algorithmic Beauty of Seaweeds,  
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The Algorithmic Beauty of Seaweeds, Sponges, and Corals. by Kaandorp Jaap A & Kubler Janet E.: Springer 2001 First Edition Hardback. 4to. pp xv 193. Fine Copy in Fine Dust Jacket. ISBN 3 540 67700 3...

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their mixture of regularity and irregularity  
a particular pattern seems to follow  
particular rules but these

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D.Barnes, R.Carpenter, L.Collado,  
P.Dodds, S.Dudgeon, D.Garbary, S.Gatti,

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R.Merks., W.Müller, S.Muko, B.  
Rinkevich, J.Sanchez, P.Sloot, M.Vermeij

Seaweeds (macroalgae) represent the most striking living components in the Antarctic's near-shore ecosystems, especially across the West Antarctic Peninsula and adjacent islands. Due to their abundance, their central roles as primary producers and foundation organisms, and as sources of diverse metabolically active products, seaweed assemblages are fundamental to biogeochemical cycles in Antarctic coastal systems. In recent years, the imminence of climate change and the direct impacts of human beings, which are affecting vast regions of the Antarctic, have highlighted the importance of seaweed processes in

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connection with biodiversity, adaptation and interactions in the benthic network. Various research groups have been actively involved in the investigation of these topics. Many of these research efforts have a long tradition, while some “newcomers” have also recently contributed important new approaches to the study of these organisms, benefiting polar science as a whole. This book provides an overview of recent advances and insights gleaned over the past several years. Focusing on a timely topic and extremely valuable resource, it assesses the challenges and outlines future directions in the study of Antarctic seaweeds.

Papers selected to the present monograph are only a small piece of subjects being

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investigated in Poland in the range of medical computer science. Their summaries and preliminary results were presented during the international conference „Computers in Medical Activity" organized by the College of Computer Science in Lodz with the collaboration of the Polish Society of Medical Computer Science in Poland in 2007. The subject matter of the monograph is mainly steered on employing the computer systems in the diagnostics then the equipment of the medical activity and the general problems connected with the organization the medical care.

Membrane computing is a branch of natural computing which investigates computing models abstracted from the structure and functioning of living cells and from their interactions in tissues or

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higher-order biological structures. The models considered, called membrane systems (P systems), are parallel, distributed computing models, processing multisets of symbols in cell-like compartmental architectures. In many applications membrane systems have considerable advantages – among these are their inherently discrete nature, parallelism, transparency, scalability and nondeterminism. In dedicated chapters, leading experts explain most of the applications of membrane computing reported so far, in biology, computer science, computer graphics and linguistics. The book also contains detailed reviews of the software tools used to simulate P systems.

To formalize the dynamics of living things is to search for invariants in a system that contains an irreducible aspect of

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“fuzziness”, because biological processes are characterized by their large statistical variability, and strong dependence on temporal and environmental factors. What is essential is the identification of what remains stable in a “living being” that is highly fluctuating. The use of mathematics is not limited to the use of calculating tools to simulate and predict results. It also allows us to adopt a way of thinking that is founded on concepts and hypotheses, leading to their discussion and validation. Instruments of mathematical intelligibility and coherence have gradually “fashioned” the view we now have of biological systems. Teaching and research, fundamental or applied, are now dependent on this new order known as Integrative Biology or Systems Biology.

This book offers a thorough and up-to-date treatment of the use of morphometric

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procedures in a wide variety of contexts. As one of the most dynamic and popular fields on the contemporary biological scene, morphometrics is gaining notice among researchers and students as a necessary complement to molecular studies in the understanding and maintenance of biodiversity. This is the first reference to meet that growing need.

This book facilitates an integrative understanding of the development, genetics and evolution of butterfly wing patterns. To develop a deep and realistic understanding of the diversity and evolution of butterfly wing patterns, it is essential and necessary to approach the problem from various kinds of key research fields such as “evo-devo,” “eco-devo,” “developmental genetics,” “ecology and adaptation,” “food plants,” and “theoretical modeling.” The past

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decade-and-a-half has seen a veritable revolution in our understanding of the development, genetics and evolution of butterfly wing patterns. In addition, studies of how environmental and climatic factors affect the expression of color patterns has led to increasingly deeper understanding of the pervasiveness and underlying mechanisms of phenotypic plasticity. In recognition of the great progress in research on the biology, an international meeting titled “Integrative Approach to Understanding the Diversity of Butterfly Wing Patterns (IABP-2016)” was held at Chubu University, Japan in August 2016. This book consists of selected contributions from the meeting. Authors include main active researchers of new findings of corresponding genes as well as world leaders in both experimental and theoretical approaches to wing color patterns. The book provides excellent case

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studies for graduate and undergraduate classes in evolution, genetics/genomics, developmental biology, ecology, biochemistry, and also theoretical biology, opening the door to a new era in the integrative approach to the analysis of biological problems. This book is open access under a CC BY 4.0 license.

This comprehensive, detailed reference provides readers with both a working knowledge of Mathematica in general and a detailed knowledge of the key aspects needed to create the fastest, shortest, and most elegant implementations possible. It gives users a deeper understanding of Mathematica by instructive implementations, explanations, and examples from a range of disciplines at varying levels of complexity. The three volumes - Programming, Graphics, and Mathematics - each with a CD, total 3,000

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pages and contain more than 15,000 Mathematica inputs, over 1,500 graphics, 4,000+ references, and more than 500 exercises. This second volume covers 2 and 3D graphics, providing a detailed treatment of creating images from graphic primitives such as points, lines, and polygons. It also shows how to graphically display functions that are given either analytically or in discrete form and a number of images from the Mathematica graphics gallery. The use of Mathematica's graphics capabilities provides a very efficient and instructive way to learn how to deal with the structures arising in solving complicated problems.

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