

Design Principles for the Immune System and Other Distributed Autonomous Systems

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Lee A. Segel
Irwin R. Cohen



A VOLUME IN THE
SANTA FE INSTITUTE STUDIES IN THE SCIENCES OF COMPLEXITY

Design Principles For The Immune System And Other Distributed Autonomous Systems

Daniela Niemeyer



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Cohen, 2001-06-14 *Design Principles for the Immune System and Other Distributed Autonomous Systems* is the first book to examine the inner workings of such a variety of distributed autonomous systems from insect colonies to high level computer programs to the immune system. It offers insight into the fascinating world of these systems that emerge from the interactions of seemingly autonomous components and brings us up to date on the state of research in these areas. Using the immune system and certain aspects of its functions as a primary model, this book examines many of the most interesting and troubling questions posed by complex systems: How do systems choose the right set of agents to perform appropriate actions with appropriate intensities at appropriate times? How in the immune system, ant colonies and metabolic networks does the diffusion and binding of a large variety of chemicals to their receptors permit coordination of system action? What advantages drive the various systems to complexity and by what mechanisms do the systems cope with the tendency toward unwieldiness and randomness of large complex systems?

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Complexity in Biological Information Processing Gregory R. Bock, Jamie A. Goode, 2001-08-30 Many human diseases arise from the malfunction of signalling components in particular alterations of multiple components of an integrated signalling network. Experimental and computational tools to describe and quantify these changes are increasingly available, providing a wealth of data that can stimulate systematic analysis of the entire signalling network and enable prediction of disease states not easily recognizable from complex data sets. This groundbreaking book explores the structural and temporal complexity in biological signalling exemplified in neuronal, immunological, humoral and genetic signal transduction networks. With discussions between experimentalists and theoretically oriented scientists, this book takes an interdisciplinary approach that may help switch the analysis of biological signalling from descriptive to predictive science and capture the behaviour of entire systems. Explores

the structural and temporal complexity in biological signalling Represents an unusual collocation of three different areas immunology cell signalling and neural networks Contains interdisciplinary discussions between experimentalists and theoretically oriented scientists in particular those working on computer simulations

Landscapes of Collectivity in the Life Sciences Snait B. Gissis, Ehud Lamm, Ayelet Shavit, 2018-01-12 Broad perspective on collectivity in the life sciences from microorganisms to human consensus and the theoretical and empirical opportunities and challenges Many researchers and scholars in the life sciences have become increasingly critical of the traditional methodological focus on the individual This volume counters such methodological individualism by exploring recent and influential work in the life sciences that utilizes notions of collectivity sociality rich interactions and emergent phenomena as essential explanatory tools to handle numerous persistent scientific questions in the life sciences The contributors consider case studies of collectivity that range from microorganisms to human consensus discussing theoretical and empirical challenges and the innovative methods and solutions scientists have devised The contributors offer historical philosophical and biological perspectives on collectivity and describe collective phenomena seen in insects the immune system communication and human collectivity with examples ranging from cooperative transport in the longhorn crazy ant to the evolution of autobiographical memory They examine ways of explaining collectivity including case studies and modeling approaches and explore collectivity's explanatory power They present a comprehensive look at a specific case of collectivity the Holobiont notion the idea of a multi species collective a host and diverse microorganisms and the hologenome theory which posits that the holobiont and its hologenome are a unit of adaption The volume concludes with reflections on the work of the late physicist Eshel Ben Jacob pioneer in the study of collective phenomena in living systems Contributors Oren Bader John Beatty Dinah R Davison Daniel Dor Ofer Feinerman Raghavendra Gadagkar Scott F Gilbert Snait B Gissis Deborah M Gordon James Griesemer Zachariah I Grochau Wright Erik R Hanschen Eva Jablonka Mohit Kumar Jolly Anat Kolumbus Ehud Lamm Herbert Levine Arnon Levy Xue Fei Li Elisabeth A Lloyd Yael Lubin Eva Maria Luef Ehud Meron Richard E Michod Samir Okasha Simone Pika Joan Roughgarden Eugene Rosenberg Ayelet Shavit Yael Silver Alfred I Tauber Ilana Zilber Rosenberg

Complexity Melanie Mitchell, 2009-04-01 What enables individually simple insects like ants to act with such precision and purpose as a group How do trillions of neurons produce something as extraordinarily complex as consciousness In this remarkably clear and companionable book leading complex systems scientist Melanie Mitchell provides an intimate tour of the sciences of complexity a broad set of efforts that seek to explain how large scale complex organized and adaptive behavior can emerge from simple interactions among myriad individuals Based on her work at the Santa Fe Institute and drawing on its interdisciplinary strategies Mitchell brings clarity to the workings of complexity across a broad range of biological technological and social phenomena seeking out the general principles or laws that apply to all of them Richly illustrated Complexity A Guided Tour winner of the 2010 Phi Beta Kappa Book Award in Science offers a wide ranging overview of the ideas underlying complex systems science the

current research at the forefront of this field and the prospects for its contribution to solving some of the most important scientific questions of our time *Toward a Safer and More Secure Cyberspace* National Academy of Engineering, National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Improving Cybersecurity Research in the United States, 2007-11-24 Given the growing importance of cyberspace to nearly all aspects of national life a secure cyberspace is vitally important to the nation but cyberspace is far from secure today The United States faces the real risk that adversaries will exploit vulnerabilities in the nation's critical information systems thereby causing considerable suffering and damage Online e-commerce business government agency files and identity records are all potential security targets *Toward a Safer and More Secure Cyberspace* examines these Internet security vulnerabilities and offers a strategy for future research aimed at countering cyber attacks It also explores the nature of online threats and some of the reasons why past research for improving cybersecurity has had less impact than anticipated and considers the human resource base needed to advance the cybersecurity research agenda This book will be an invaluable resource for Internet security professionals information technologists policy makers data stewards e-commerce providers consumer protection advocates and others interested in digital security and safety **Enhancing Computer Security with Smart Technology** V. Rao Vemuri, 2005-11-21 Divided into two major parts *Enhancing Computer Security with Smart Technology* introduces the problems of computer security to researchers with a machine learning background then introduces machine learning concepts to computer security professionals Realizing the massive scope of these subjects the author concentrates on problems relating to machine learning **Catalyzing Inquiry at the Interface of Computing and Biology** National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Frontiers at the Interface of Computing and Biology, 2005-12-01 Advances in computer science and technology and in biology over the last several years have opened up the possibility for computing to help answer fundamental questions in biology and for biology to help with new approaches to computing Making the most of the research opportunities at the interface of computing and biology requires the active participation of people from both fields While past attempts have been made in this direction circumstances today appear to be much more favorable for progress To help take advantage of these opportunities this study was requested of the NRC by the National Science Foundation the Department of Defense the National Institutes of Health and the Department of Energy The report provides the basis for establishing cross disciplinary collaboration between biology and computing including an analysis of potential impediments and strategies for overcoming them The report also presents a wealth of examples that should encourage students in the biological sciences to look for ways to enable them to be more effective users of computing in their studies The Internet as a Large-scale Complex System Kihong Park, Walter Willinger, 2005 This volume contains a snapshot of some features of the Internet that may be fruitfully approached using a complex systems perspective meaning using interdisciplinary tools and methods to

tackle the subject area **Unattended Ground Sensor Technologies and Applications V** Edward M. Carapezza, Society of Photo-optical Instrumentation Engineers, 2003 **Directory of Published Proceedings** , 2002 *Smart Engineering System Design* , 2001 Emphasizing applications to engineering approximately 160 papers from the November 2001 conference in St Louis cover topics such as neural networks evolutionary programming fuzzy systems data mining complex systems adaptive control pattern recognition prediction biology and medicine and smart engineering systems Contributors include electrical and computer engineers communications specialists mathematicians artificial intelligence researchers industrial and mechanical engineers information technology researchers biomedical engineers and other scientists from around the world c Book News Inc **The Economy as an Evolving Complex System III** Lawrence Blume, Steven N. Durlauf, 2006 Much of the original motivation for the SFI Economics Program revolved around the belief that economic research could benefit from an injection of new mathematical models and new perspectives on human behavior Since then we have found that the SFI approach has greatly enriched economic theory **GECCO-2001** Lee Spector, 2001

California Fish and Game , 2014 *Soft Computing Agents* Vincenzo Loia, 2002 A study of soft computing agents It seeks to explore the development of soft computing based agents examine the role of soft computing based technology in facets of agent design and cross fertilise ideas on the soft computing perspective to the development of agent based systems

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