The Biology of Social Insects

Proceedings of the Minth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982

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Information Procebing In Social Insects

Randolf Menzel, Paul Benjamin

Information Procebing In Social Insects:

Information Processing in Social Insects Claire Detrain, Jean L. Deneubourg, Jacques M. Pasteels, 2012-12-06 Claire Detrain Jean Louis Deneubourg and Jacques Pasteels Studies on insects have been pioneering in major fields of modern biology In the 1970's research on pheromonal communication in insects gave birth to the discipline of chemical ecology and provided a scientific frame to extend this approach to other animal groups In the 1980 s the theory of kin selection which was initially formulated by Hamilton to explain the rise of eusociality in insects exploded into a field of research on its own and found applications in the under standing of community structures including vertebrate ones In the same manner recent studies which decipher the collective behaviour of insect societies might be now setting the stage for the elucidation of information processing in animals Classically problem solving is assumed to rely on the knowledge of a central unit which must take decisions and collect all pertinent information However an alternative method is extensively used in nature problems can be collectively solved through the behaviour of individuals which interact with each other and with the environment The management of information which is a major issue of animal behaviour is interesting to study in a social life context as it raises additional questions about conflict cooperation trade oft's Insect societies have proven particularly open to experimental analysis one can easily assemble or disassemble them and place them in controllable situations in the laboratory Information Processing in Social Insects Claire Detrain, J. L. Deneubourg, Jacques M. Pasteels, 1999 The book provides a first comprehensive overview of both experimental and theoretical research on information processing in insect societies Its purpose is to make the reader familiar with the methodology and ways of thinking followed by scientists at the leading edge of the field The book is aimed at postgraduate students and researchers working on social insects and insects that live in groups as well as any reader interested in behavioural ecology communication and social organization Food **Exploitation By Social Insects** Stefan Jarau, Michael Hrncir, 2009-05-21 Omnipresent in virtually all terrestrial ecosystems and of undisputed ecological and economical importance the study of social insects is an area that continues to attract a vast number of researchers As a consequence a huge amount of information about their biology and ecology has accumulated Distilling this scattered information into a highly Organization of Insect Societies Jürgen Gadau, Jennifer Fewell, 2009-02-28 In this landmark volume an international group of scientists has synthesized their collective expertise and insight into a newly unified vision of insect societies and what they can reveal about how sociality has arisen as an evolutionary strategy J rgen Gadau and Jennifer Fewell have assembled leading researchers from the fields of molecular biology evolutionary genetics neurophysiology behavioral ecology and evolutionary theory to reexamine the guestion of sociality in insects Recent advances in social complexity theory and the sequencing of the honeybee genome ensure that this book will be valued by anyone working on sociality in insects At the same time the theoretical ideas presented will be of broad ranging significance to those interested in social evolution and complex systems The Superorganism Bert

Holldobler, Edward O Wilson, 2009 The Pulitzer Prize winning authors of The Ants render the extraordinary lives of the social insects ants bees wasps and termites in this visually spectacular volume 110 color and 100 black and white illustrations

Encyclopedia of Insects Vincent H. Resh, Ring T. Cardé, 2009-07-22 Awarded Best Reference by the New York Public Library 2004 Outstanding Academic Title by CHOICE 2003 and AAP PSP 2003 Best Single Volume Reference Sciences by Association of American Publishers Professional Scholarly Publishing Division the first edition of Encyclopedia of Insects was acclaimed as the most comprehensive work devoted to insects Covering all aspects of insect anatomy physiology evolution behavior reproduction ecology and disease as well as issues of exploitation conservation and management this book sets the standard in entomology The second edition of this reference will continue the tradition by providing the most comprehensive useful and up to date resource for professionals Expanded sections in forensic entomology biotechnology and Drosphila reflect the full update of over 300 topics Articles contributed by over 260 high profile and internationally recognized entomologists provide definitive facts regarding all insects from ants beetles and butterflies to yellow jackets zoraptera and zygentoma 66% NEW and revised content by over 200 international experts New chapters on Bedbugs Ekbom Syndrome Human History Genomics Vinegaroons Expanded sections on insect human interactions genomics biotechnology and ecology Each of the 273 articles updated to reflect the advances which have taken place in entomology research since the previous edition Features 1 000 full color photographs figures and tables A full glossary 1 700 cross references 3 000 bibliographic entries and online access save research time Updated with online access **Social Recognition in Invertebrates** Laura Aguiloni, Elena Tricarico, 2015-05-29 This book uses a wide range of case studies from different invertebrate taxa to describe the numerous forms of social recognition occurring in this large group of animals and traces the evolution of this cognitive ability The authors provide several examples of direct i e the target of recognition is a conspecific and indirect recognition i e recognition of a reliable proxy rather than an individual such as a den or a substrate and discuss cases of familiar recognition i e an animal remembers a conspecific but cannot tell what class it comes from or recognize its identity Class level recognition i e an animal assigns a conspecific to an appropriate class of animals and true individual recognition i e an animal both identifies and recognizes a conspecific on an individual basis are also addressed Advances in Insect Physiology Jerome Casas, 2008-11-21 Advances in Insect Physiology publishes eclectic volumes containing important comprehensive and in depth reviews on all aspects of insect physiology It is an essential reference source for invertebrate physiologists and neurobiologists entomologists zoologists and insect biochemists First published in 1963 the serial is now edited by Steve Simpson and Jerome Casas to provide an international perspective Contributions from the leading researchers in entomology Discusses the physiological diversity in insects Includes in depth reviews with valuable information for a variety of entomology disciplines Insect Behavior Alex Córdoba-Aguilar, Daniel González-Tokman, Isaac González-Santoyo, 2018-07-19 Insects display a staggering diversity of behaviors Studying these systems provides insights

into a wide range of ecological evolutionary and behavioral questions including the genetics of behavior phenotypic plasticity chemical communication and the evolution of life history traits This accessible text offers a new approach that provides the reader with the necessary theoretical and conceptual foundations at different hierarchical levels to understand insect behavior The book is divided into three main sections mechanisms ecological and evolutionary consequences and applied issues The final section places the preceding chapters within a framework of current threats to human survival climate change disease and food security before providing suggestions and insights as to how we can utilize an understanding of insect behavior to control and or ameliorate them Each chapter provides a concise authoritative review of the conceptual theoretical and methodological foundations of each topic Introduction of Insects Mr. Rohit Manglik, 2024-07-18 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels Modeling for Complex Systems Paul K. Davis, Angela O'Mahony, Jonathan Pfautz, 2019-04-09 This volume describes frontiers in social behavioral modeling for contexts as diverse as national security health and on line social gaming Recent scientific and technological advances have created exciting opportunities for such improvements However the book also identifies crucial scientific ethical and cultural challenges to be met if social behavioral modeling is to achieve its potential Doing so will require new methods data sources and technology The volume discusses these including those needed to achieve and maintain high standards of ethics and privacy The result should be a new generation of modeling that will advance science and separately aid decision making on major social and security related subjects despite the myriad uncertainties and complexities of social phenomena Intended to be relatively comprehensive in scope the volume balances theory driven data driven and hybrid approaches The latter may be rapidly iterative as when artificial intelligence methods are coupled with theory driven insights to build models that are sound comprehensible and usable in new situations With the intent of being a milestone document that sketches a research agenda for the next decade the volume draws on the wisdom ideas and suggestions of many noted researchers who draw in turn from anthropology communications complexity science computer science defense planning economics engineering health systems medicine neuroscience physics political science psychology public policy and sociology In brief the volume discusses Cutting edge challenges and opportunities in modeling for social and behavioral science Special requirements for achieving high standards of privacy and ethics New approaches for developing theory while exploiting both empirical and computational data Issues of reproducibility communication explanation and validation Special requirements for models intended to inform decision making about complex social systems Cooperation and Its Evolution Kim Sterelny, Richard Joyce, Brett Calcott, Ben Fraser, 2024-08-06 Essays from a range of

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latest research on an increasingly pivotal issue for evolutionary biology cooperation. The chapters are written from a variety of disciplinary perspectives and utilize research tools that range from empirical survey to conceptual modeling reflecting the rich diversity of work in the field They explore a wide taxonomic range concentrating on bacteria social insects and especially humans Part I Agents and Environments investigates the connections of social cooperation in social organizations to the conditions that make cooperation profitable and stable focusing on the interactions of agent population and environment Part II Agents and Mechanisms focuses on how proximate mechanisms emerge and operate in the evolutionary process and how they shape evolutionary trajectories Throughout the book certain themes emerge that demonstrate the ubiquity of questions regarding cooperation in evolutionary biology the generation and division of the profits of cooperation transitions in individuality levels of selection from gene to organism and the human cooperation explosion that makes our own social behavior particularly puzzling from an evolutionary perspective Bradford Books imprint Swarm Intelligence Eric Bonabeau, Marco Dorigo, Guy Theraulaz, 1999-09-23 Social insects ants bees termites and wasps can be viewed as powerful problem solving systems with sophisticated collective intelligence Composed of simple interacting agents this intelligence lies in the networks of interactions among individuals and between individuals and the environment A fascinating subject social insects are also a powerful metaphor for artificial intelligence and the problems they solve finding food dividing labor among nestmates building nests responding to external challenges have important counterparts in engineering and computer science This book provides a detailed look at models of social insect behavior and how to apply these models in the design of complex systems The book shows how these models replace an emphasis on control preprogramming and centralization with designs featuring autonomy emergence and distributed functioning These designs are proving immensely flexible and robust able to adapt quickly to changing environments and to continue functioning even when individual elements fail In particular these designs are an exciting approach to the tremendous growth of complexity in software and information Swarm Intelligence draws on up to date research from biology neuroscience artificial intelligence robotics operations research and computer graphics and each chapter is organized around a particular biological example which is then used to develop an algorithm a multiagent system or a group of robots The book will be an invaluable resource for a broad range of disciplines

Social Interaction and the Development of Knowledge Jeremy I.M. Carpendale, Ulrich M ller, 2014-04-04 Written by highly respected theorists in psychology and philosophy the chapters in this book explicate and address fundamental epistemological issues involved in the problem of the relationship between the individual and the collective Different theoretical viewpoints are presented on this relationship as well as between the nature of rationality and morality relativism and universalism and enculturation and internalization Many chapters also highlight similarities and differences between these alternative frameworks and Piaget's theory and thus correct the misperception that Piaget had nothing to say about the social dimension of development Other chapters focus on the implications of these debates for the important topic areas of

pedagogy moral development and the development of social understanding in infancy and childhood Although Piaget s theory is presented and evaluated by some of the chapters in this collection the authors remain critical and do not shy away from revising or extending Piaget s theory whenever it is deemed necessary Though the topic covered in this book is of fundamental importance in the social sciences it is rarely addressed in a sustained way as it is in this collection of chapters The book benefits social scientists interested in fundamental epistemological issues especially as these concern the relationship between the individual and the collective with implications for the conceptualization of morality and rationality

Hidden Insect World Yves Earhart, 2025-01-07 Hidden Insect World challenges our understanding of insects by revealing their crucial role as architects of Earth's ecosystems rather than mere background players in nature Through a carefully structured exploration the book illuminates three fascinating dimensions the sophisticated social structures within insect colonies their complex chemical communication systems and their vital contributions to ecosystem stability Drawing from cutting edge research across multiple continents the text masterfully weaves together findings from advanced imaging technologies and chemical analysis to present a comprehensive view of insect life The journey begins with an eye opening examination of insect sensory capabilities that far exceed human perception progressing through underground networks and nocturnal activities that shape our environment Particularly intriguing are the revelations about how insects have evolved successful survival strategies over 400 million years demonstrating remarkable adaptability and resilience The book s integration of entomology chemistry and ecosystem science provides readers with a unique perspective on how these tiny creatures influence everything from agricultural practices to urban development What sets this work apart is its accessible presentation of technical information making complex scientific concepts comprehensible to readers with basic science knowledge The book connects insect studies to broader environmental challenges including climate change and biodiversity conservation while offering practical applications for garden management and pest control By examining both common and rare species through the lens of behavioral patterns and ecological relationships it provides valuable insights for biology students environmental professionals and nature enthusiasts alike Invertebrate Learning and Memory Randolf Menzel, Paul Benjamin, 2013-06-18 Understanding how memories are induced and maintained is one of the major outstanding questions in modern neuroscience This is difficult to address in the mammalian brain due to its enormous complexity and invertebrates offer major advantages for learning and memory studies because of their relative simplicity Many important discoveries made in invertebrates have been found to be generally applicable to higher organisms and the overarching theme of the proposed will be to integrate information from different levels of neural organization to help generate a complete account of learning and memory Edited by two leaders in the field Invertebrate Learning and Memory will offer a current and comprehensive review with chapters authored by experts in each topic The volume will take a multidisciplinary approach exploring behavioral cellular genetic molecular and computational investigations of memory Coverage will include

comparative cognition at the behavioral and mechanistic level developments in concepts and methodologies that will underlie future advancements and mechanistic examples from the most important vertebrate systems nematodes molluscs and insects Neuroscience researchers and graduate students with an interest in the neural control of cognitive behavior will benefit as will as will those in the field of invertebrate learning Presents an overview of invertebrate studies at the molecular cellular neural levels and correlates findings to mammalian behavioral investigations Linking multidisciplinary approaches allows for full understanding of how molecular changes in neurons and circuits underpin behavioral plasticity Edited work with chapters authored by leaders in the field around the globe the broadest most expert coverage available Comprehensive coverage synthesizes widely dispersed research serving as one stop shopping for comparative learning and memory researchers Ant Algorithms Marco Dorigo, Gianni Di Caro, Michael Sampels, 2003-08-02 This book constitutes the refereed proceedings of the Third International Workshop on Ant Algorithms ANTS 2002 held in Brussels Belgium in September 2002 The 17 revised full papers 11 short papers and extended poster abstracts presented were carefully reviewed and selected from 52 submissions The papers deal with theoretical and foundational aspects and a variety of new variants of ant algorithms as well as with a broad variety of optimization applications in networking and operations research All in all this book presents the state of the art in research and development in the emerging field of ant algorithms Insect Physiology, 2025-11-01 Advances in Insect Physiology Volume 68 in the series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Sections in this new release include The immune and non immune defenses of aphids Ecology Evolution and Mechanisms of Taste in Social Insects Neuroendocrine regulation of Malpighian tubules Tick gut physiology and Drosophila insect immunity Provides the latest information on Insect Physiology research Offers outstanding and original reviews on a range of Insect Physiology research topics Serves as an indispensable reference for researchers and students alike Insect Hydrocarbons Gary J. Blomquist, Anne-Geneviève Bagnères, 2010-02-04 A unique and critical analysis of the wealth of research conducted on the biology biochemistry and chemical ecology of the rapidly growing field of insect cuticular hydrocarbons Authored by leading experts in their respective fields the twenty chapters show the complexity that has been discovered in the nature and role of hydrocarbons in entomology Covers in great depth aspects of chemistry structures qualitative and quantitative analysis biochemistry biosynthesis molecular biology genetics evolution physiology taxonomy and ecology Clearly presents to the reader the array of data ideas insights and historical disagreements that have been accumulated during the past half century An emphasis is placed on the role of insect hydrocarbons in chemical communication especially among the social insects Includes the first review on the chemical synthesis of insect hydrocarbons The material presented is a major resource for current researchers and a source of ideas for new researchers Neurobiology and Behavior of Honeybees Randolf Menzel, Alison Mercer, 2012-12-06 At the beginning of the century Karl von Frisch inaugurated the experimental analysis of

bee behavior with his studies on form and color vision Since then experimental analysis of bee behavior has been extended to their orientation in space and time sensory capabilities and communication within a social group How does a creature with a brain volume of scarcely one cubic millimeter generate such varied and complex behavior This volume represents the latest research on the behavior and neurobiology of bees Topics include dance communication foraging and search behavior decision making color vision learning and memory structure and function of brain neurons immunocytological characterization of neuropils and identified neurons and neuropharmacological studies of stereotyped and learned behavior Together these papers illustrate the challenge that bee behavior presents to the neuroethologist as well as the progress that this field has made in recent years in the tradition of von Frisch's pioneering work

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