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# Coordinated Distributed Experiments An Emerging Tool For

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Multi-Agent Based Simulation XVI Springer

In four chapters and an introduction, this book systematically helps readers understand the development of the Geographical Sciences both in China and in the world during the past 30 years. Through data analysis of methodologies including CiteSpace, TDA, qualitative analysis, questionnaires, data mining and mathematical statistics, the book explains the evolution of research topics and their driving factors in the Geographical Sciences and its four branches, namely Physical Geography, Human Geography, Geographical Information Science and Environmental Geography. It also identifies the role of the Geographical Sciences in the analysis of strategic issues such as global change and terrestrial ecosystems, terrestrial water cycle and water resources, land change, global cryosphere evolution and land surface processes on the Tibetan Plateau, economic globalization and local responses, regional sustainable development, remote sensing modelling and parameter inversion, spatial analysis and simulation, and tempo-spatial processes and modelling of environmental pollutants. It then discusses research development and inadequacy of Chinese Geographical Sciences in the above-mentioned topics, as well as in the fields including Geomorphology and Quaternary environmental change, Ecohydrology, ecosystem services, the urbanization process and mechanism, medical and health geography, international rivers and

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transboundary environment and resources, detection and attribution of changes in land surface sensitive components, and uncertainty of spatial information and spatial analysis. It shows that the NSFC has driven the development in all these topics and fields. In addition, the book summarises trends of the Geographical Sciences in China and the research level in major countries of the world through an overview of geographical education in colleges and universities, the analysis of publications, citations and author networks of SCI/SSCI and CSCD indexed articles, and the description of Sino-USA, Sino-UK and Sino-German cooperation. This book serves as an important reference to anyone interested in geographical sciences and related fields.

Grasslands and Climate Change Oxford University Press

"This book summarizes the challenges inherent in leading distributed teams and explores practices that are emerging to optimize distributed team performance"--Provided by publisher.

Data Information Literacy Cambridge University Press

"This book provide relevant theoretical frameworks covering the latest empirical research findings in the area of grid computing, with a critical perspective bridging the gap between academia and the latest achievements of the computer industry"--Provided by publisher.

China Seismic Experimental Site Frontiers Media SA

With almost 90% of terrestrial plant

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material entering the detrital pool, the processing of this significant carbon source is a critical ecosystem function to understand. Riverine ecosystems are estimated to receive, process and transport nearly 1.9 Pg of terrestrial carbon per year globally, highlighting the focus many freshwater ecologists have on the factors that explain decomposition rates of senesced plant material. Since Webster and Benfield offered the first comprehensive review of these factors in 1986, there has been an explosion of research addressing key questions about the ecological interactions at play. Ecologists have developed field and laboratory techniques, as well as created global scale collaborations to disentangle the many drivers involved in the decomposition

process. This book encapsulates these 30+ years of research, describing the state of knowledge on the ecology of plant litter decomposition in stream ecosystems in 22 chapters written by internationally renowned experts on the subject.

*Urban Biodiversity and Equity*  
Frontiers Media SA

Four unique pan-European CORINE Land Cover datasets—CLC1990, CLC2000, CLC2006, and CLC2012—and three datasets concerning changes between 1990 and 2012 have presented the first-ever opportunity to observe the European landscape by means of land cover and its change. This book brings together all these datasets to demonstrate the

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methods of identification, analysis and assessment of the European land cover and its changes that took place during the intervals of 1990–2000, 2000–2006, and 2006–2012. It provides examples in which CLC data plays a role in offering solutions to European environmental problems such as the monitoring of urban dynamics, land fragmentation, ecosystems mapping and assessment, and high nature value farmland characteristics. Existing environmental problems require new approaches, and European Landscape Dynamics: CORINE Land Cover Data indicates

a set of outlooks for CLC data generation that produce more detailed levels of analysis and bottom-up approaches while addressing the relationship of CLC data to the Infrastructure for Spatial Information in Europe (INSPIRE). It also discusses the future of CLC data generation. A valuable resource of up-to-date information, it is useful to professionals such as scientists, territorial planners, and environmentalists as well as students of geosciences and all those who are interested in cognition of the European landscape, its changes and development.

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Experimental Robotics IX Princeton University Press  
Terrestrial Ecosystem Research Infrastructures: Challenges and Opportunities reveals how environmental research infrastructures (RIs) provide new valuable insights on ecological processes that cannot be realized by more traditional short-term funding cycles and are integral to understand our changing world. This book bonds the latest state-of-the-science knowledge on environmental RIs, the challenges in creating them, their place in addressing scientific frontiers, and the new perspectives they bear. Each chapter is thoughtfully invested with fresh viewpoints from the environmental RI vantage

as the authors explore and explain many topics such as the rationale and challenges in global change, field and modeling platforms, new tools, challenges in data management, distilling information into knowledge, and new developments in large-scale RIs. This work serves an advantageous guide for academics and practitioners alike who aim to deepen their knowledge in the field of science and project management, and logistics operations.

*What's Shared in Sharing Tasks and Actions? Processes and Representations Underlying Joint Performance* CRC Press  
A comprehensive assessment of the effects of climate change

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on global grasslands and the mitigating role that ecologists can play.

The Theory of Ecological Communities (MPB-57) Duke University Press

During the past decade, plenty of studies have been carried out in the literature to address the coordination and cooperation problems in complex adaptive systems, and have continued to grow. This Research Topic eBook publishes 14 papers by 39 authors, and most of these published papers present current research illustrating

the depth and breadth of ongoing work on the coordination and cooperation problems in complex adaptive systems. It thus provides a timely discussion for researchers on the hotspots and challenges of the study on coordination and cooperation in theoretical models and applied systems.

The Geographical Sciences During 1986–2015 Springer

This important Handbook is an essential guide to the state-of-the-art concepts, debates and innovative practices in the field of cumulative impact assessment. It helps to strengthen the

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foundations of this challenging field, identify key issues demanding solutions and summarize recent trends in forward progress, particularly through the use of illustrative case examples.

*Handbook of Road Ecology* Springer

Given the increasing attention to managing, publishing, and preserving research datasets as scholarly assets, what competencies in working with research data will graduate students in STEM disciplines need to be successful in their fields? And what role can librarians play in helping students attain these competencies? In addressing these questions, this book articulates a new area of opportunity for librarians and other information

professionals, developing educational programs that introduce graduate students to the knowledge and skills needed to work with research data. The term "data information literacy" has been adopted with the deliberate intent of tying two emerging roles for librarians together. By viewing information literacy and data services as complementary rather than separate activities, the contributors seek to leverage the progress made and the lessons learned in each service area. The intent of the publication is to help librarians cultivate strategies and approaches for developing data information literacy programs of their own using the work done in the



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multiyear, IMLS-supported Data Information Literacy (DIL) project as real-world case studies. The initial chapters introduce the concepts and ideas behind data information literacy, such as the twelve data competencies. The middle chapters describe five case studies in data information literacy conducted at different institutions (Cornell, Purdue, Minnesota, Oregon), each focused on a different disciplinary area in science and engineering. They detail the approaches taken, how the programs were implemented, and the assessment metrics used to evaluate their impact. The later chapters include the "DIL Toolkit," a distillation of the lessons learned, which is presented as a handbook for librarians interested in developing their own DIL programs. The book concludes with recommendations for future directions and growth of data information literacy. More information about the DIL project can be found on the project's website: [datainfoilit.org](http://datainfoilit.org).

**Long-Term Ecological Research**  
CRC Press

The International Symposium on Experimental Robotics (ISER) is a series of bi-annual meetings which are organized in a rotating fashion around North America, Europe and Asia/Oceania. The goal of ISER is to provide a

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forum for research in robotics developments and new that focuses on novelty of theoretical contributions validated by experimental results. The meetings are conceived to bring together, in a small group setting, researchers from around the world who are in the forefront of experimental robotics research. This unique reference presents the latest advances across the various fields of robotics, with ideas that are not only conceived conceptually but also verified experimentally. It collects contributions on the current directions in the field of experimental robotics, which are based on the papers presented at the Ninth ISER held in Singapore.

**Computational and Data Grids: Principles, Applications and Design** Firenze University Press

What is a life worth? In the wake of eugenics, new quantitative racist practices that valued life for the sake of economic futures flourished. In *The Economization of Life*, Michelle Murphy provocatively describes the twentieth-century rise of infrastructures of calculation and experiment

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aimed at governing population for the sake of national economy, pinpointing the spread of a potent biopolitical logic: some must not be born so that others might live more prosperously. Resituating the history of postcolonial neoliberal technique in expert circuits between the United States and Bangladesh, Murphy traces the methods and imaginaries through which family planning calculated lives not worth living, lives not worth saving, and lives not worth being born. The resulting archive of thick data transmuted into financialized "Invest in a Girl" campaigns that reframed survival as a question of human capital. The book challenges readers to reject the economy as our collective container and to refuse population as a term of reproductive justice.

Earthquake and Disaster Risk: Decade Retrospective of the Wenchuan Earthquake Springer Science & Business Media

A plethora of different theories, models, and concepts make up the field of community ecology. Amid this vast body of work, is it possible to build one general theory of ecological communities? What other scientific areas might

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serve as a guiding framework? As it turns out, the core focus of community ecology—understanding patterns of diversity and composition of biological variants across space and time—is shared by evolutionary biology and its very coherent conceptual framework, population genetics theory. The Theory of Ecological Communities takes this as a starting point to pull together community ecology's various perspectives into a more unified whole. Mark Vellend builds a theory of ecological communities based on four overarching processes: selection among species, drift, dispersal, and speciation. These are analogues of the four central processes in population genetics theory—selection within species, drift, gene flow, and mutation—and together they subsume almost all of the many dozens of more specific models built to describe the dynamics of communities of interacting species. The result is a theory that allows the effects of many low-level processes, such as competition, facilitation, predation, disturbance, stress, succession, colonization, and local extinction to be understood as the underpinnings of high-level processes with

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widely applicable consequences for ecological communities. Reframing the numerous existing ideas in community ecology, *The Theory of Ecological Communities* provides a new way for thinking about biological composition and diversity.

**Production and Manufacturing System Management: Coordination Approaches and Multi-Site Planning** Addison Wesley

"This book presents relevant theoretical frameworks and most recent research findings in this area, providing significant theories for research students and scholars to carry out their continuous

research as well as practitioners who aim to improve upon their understanding of distributed production planning"--

*Experimental Robotics* IGI Global  
With one volume each year, this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences. The present volume includes reviews on physiology, ecology and vegetation science.

**Human Interaction, Emerging Technologies and Future Systems V** Springer

Winner of the IENE Project Award 2016. This authoritative volume brings together some of the

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world's leading researchers, academics, practitioners and transportation agency personnel to present the current status of the ecological sustainability of the linear infrastructure - primarily road, rail and utility easements - that dissect and fragment landscapes globally. It outlines the potential impacts, demonstrates how this infrastructure is being improved, and how broad ecological principles are applied to mitigate the impact of road networks on wildlife. Research and monitoring is an important aspect of road ecology, encompassing all phases of a transportation project. This book covers research and monitoring to span the entire project continuum - starting with planning and design, through construction and into maintenance and management. It focuses on impacts and solutions for species groups and specific regions, with particular emphasis on the unique challenges facing Asia, South America and Africa. Other key features: Contributions from authors originating from over 25 countries, including from all continents Each chapter summarizes important lessons, and includes lists of further reading and thoroughly up to date references Highlights principles that address key points relevant to all phases in all road projects Explains best-practices based on a number of successful international case studies Chapters are "stand-alone", but they also build upon and

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complement each other; extensive cross-referencing directs the reader to relevant material elsewhere in the book Handbook of Road Ecology offers a comprehensive summary of approximately 30 years of global efforts to quantify the impacts of roads and traffic and implement effective mitigation. As such, it is essential reading for those involved in the planning, design, assessment and construction of new roads; the management and maintenance of existing roads; and the modifying or retrofitting of existing roads and problem locations. This handbook is an accessible resource for both developed and developing countries, including government transportation agencies, Government environmental/conservation agencies, NGOs, and road funding and donor organisations.

**The Ecology of Plant Litter Decomposition in Stream Ecosystems**  
Springer

This volume provides an integrated compilation of selected major articles published by the author in several fields of international finance. These include contributions to the understanding of currency crises and financial contagion, the evolution of exchange rate regimes, the interaction between national fiscal policies and regional monetary unions, and the effect of uncertainty on the gains from international economic policy coordination. The author spent

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most of his career doing research at established institutions (the Bank of Canada, OECD, and IMF), and these articles emerged from the need to understand the major economic policy issues of the day. In the book's introduction, the author discusses the motivation for these contributions and the unifying themes that emerged, while a concluding chapter provides his personal reflections and suggestions about promising avenues for further research.

*Food and Conflict in Europe  
in the Age of the Two World  
Wars* IGI Global

In response to the industry's need for coordination, this book represents an approach

to the design of coordinated, distributed programs, based on a high-level language, IP.

This book appeals to theoretical computer scientists who are interested in the application of formal methods to distributed programs and software engineers who adopt an algorithmic approach when they develop software for distributed systems.

*Coordination of Information on  
Current Federal Research and  
Development Projects in the  
Field of Electronics* Springer  
Nature



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This advanced textbook moves beyond a basic scientific comprehension of urban ecosystems to understand the essential details of how scientists, policy makers, and practitioners develop solutions to effectively manage urban biodiversity. Such efforts necessitate unravelling the complex components that bolster or constrain biodiversity including human-wildlife interactions, resource availability, climate fluctuations, novel species relationships, and landscape heterogeneity. However, key to an understanding of these

processes is also recognizing the tremendous social variation inherent within and across urban areas. The diversity of urban human communities fundamentally shapes how society designs, builds, and manages urban landscapes. This means that urban environmental management unavoidably must account for human social variation. Unfortunately, urban systems have a history and continued legacy of social inequality (e.g., systemic racism and classism) that govern how cities are both built and managed. This novel text not only highlights these connections, but also

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illustrates the interdisciplinary approaches needed for advancing a new, justice-centred approach to nature conservation. Urban Biodiversity and Equity is suitable for graduate level students and professional researchers from both natural and social science disciplines studying the ecology, conservation, and management of urban environments and their biodiversity. It will also be of relevance and use to a broader audience of urban ecologists, urban planners, and urban wildlife practitioners.

Progress in Botany Springer

This book examines the effects that land-use changes (notably agricultural intensification, logging, soil erosion, urbanisation and mining) have on soil characteristics and processes in tropical and savannah environments. It covers a range of geographical regions and environments as impacts of land use change are often site specific. The effects of land use change on various aspects of the soil ecosystem from both a chemical and biological perspective will be examined.