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### KEY=II - MATTHEWS MIGUEL

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#### APPLIED ECONOMETRICS WITH R

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**Springer Science & Business Media** *R is a language and environment for data analysis and graphics. It may be considered an implementation of S, an award-winning language initially developed at Bell Laboratories since the late 1970s. The R project was initiated by Robert Gentleman and Ross Ihaka at the University of Auckland, New Zealand, in the early 1990s, and has been developed by an international team since mid-1997. Historically, econometricians have favored other computing environments, some of which have fallen by the wayside, and also a variety of packages with canned routines. We believe that R has great potential in econometrics, both for research and for teaching. There are at least three reasons for this: (1) R is mostly platform independent and runs on Microsoft Windows, the Mac family of operating systems, and various flavors of Unix/Linux, and also on some more exotic platforms. (2) R is free software that can be downloaded and installed at no cost from a family of mirror sites around the globe, the Comprehensive R Archive Network (CRAN); hence students can easily install it on their own machines. (3) R is open-source software, so that the full source code is available and can be inspected to understand what it really does, learn from it, and modify and extend it. We also like to think that platform independence and the open-source philosophy make R an ideal environment for reproducible econometric research.*

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#### THE CONVENIENT SETTING OF GLOBAL ANALYSIS

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**American Mathematical Soc.** *This book lays the foundations of differential calculus in infinite dimensions and discusses those applications in infinite dimensional differential geometry and global analysis not involving Sobolev completions and fixed point theory. The approach is simple: a mapping is called smooth if it maps smooth curves to smooth curves. Up to Frechet spaces, this notion of smoothness coincides with all known reasonable concepts. In the same spirit, calculus of holomorphic mappings (including Hartogs' theorem and holomorphic uniform boundedness theorems) and calculus of real analytic mappings are developed. Existence of smooth partitions of unity, the foundations of manifold theory in infinite dimensions, the relation between tangent vectors and derivations, and differential forms are discussed thoroughly. Special emphasis is given to the notion of regular infinite dimensional Lie groups. Many applications of this theory are included: manifolds of smooth mappings, groups of diffeomorphisms, geodesics on spaces of Riemannian metrics, direct limit manifolds, perturbation theory of operators, and differentiability questions of infinite dimensional representations.*

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#### NONLINEAR FUNCTIONAL ANALYSIS

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CRC Press

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#### HIGH-PERFORMANCE MODELLING AND SIMULATION FOR BIG DATA APPLICATIONS

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#### SELECTED RESULTS OF THE COST ACTION IC1406 CHIPSET

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**Springer** *This open access book was prepared as a Final Publication of the COST Action IC1406 "High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)" project. Long considered important pillars of the scientific method, Modelling and Simulation have evolved from traditional discrete numerical methods to complex data-intensive continuous analytical optimisations. Resolution, scale, and accuracy have become essential to predict and analyse natural and complex systems in science and engineering. When their level of abstraction raises to have a better discernment of the domain at hand, their representation gets increasingly demanding for computational and data resources. On the other hand, High Performance Computing typically entails the effective use of parallel and distributed processing units coupled with efficient storage, communication and visualisation systems to underpin complex data-intensive applications in distinct scientific and technical domains. It is then arguably required to have a seamless interaction of High Performance Computing with Modelling and Simulation in order to store, compute, analyse, and visualise large data sets in science and engineering. Funded by the European Commission, cHiPSet has provided a dynamic trans-European forum for their members and distinguished guests to openly discuss novel perspectives and topics of interests for these two communities. This cHiPSet compendium presents a set of selected case studies related to healthcare, biological data, computational advertising, multimedia, finance, bioinformatics, and telecommunications.*

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#### PANDEMICS: INSURANCE AND SOCIAL PROTECTION

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Springer Nature

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#### PRACTICAL ASPECTS OF KNOWLEDGE MANAGEMENT

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#### 5TH INTERNATIONAL CONFERENCE, PAKM 2004, VIENNA, AUSTRIA, DECEMBER 2-3, 2004, PROCEEDINGS

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**Springer Science & Business Media** *This book contains the papers presented at the 5th International Conference on Practical Aspects of Knowledge Management organized by the Department of Knowledge Management, Institute of Computer Science and Business Informatics, University of Vienna. The event took place on December 02-03, 2004 in Vienna. The PAKM conference series offers a communication forum and meeting ground for practitioners and researchers engaged in developing and deploying advanced business solutions for the management of knowledge and intellectual capital. Contributions pursuing integrated approaches which consider organizational, technological and cultural issues of knowledge management have been elected for presentation. PAKM is a forum for people to share their views, to exchange ideas, to develop new insights, and to envision completely new kinds of solutions for knowledge management problems. The accepted papers are of high quality and are not too specialized so that the main issues can be understood by someone outside the respective field. This is crucial for an interdisciplinary exchange of ideas. Like its predecessors, PAKM 2004 featured two invited talks. It is a real joy seeing the visibility of the conference increase and noting that knowledge management researchers and practitioners from all over the world submitted papers. This year, 163 papers and case studies were submitted, from which 48 were accepted.*

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#### ADVANCES IN DATA SCIENCE, CYBER SECURITY AND IT APPLICATIONS

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#### FIRST INTERNATIONAL CONFERENCE ON COMPUTING, ICC 2019, RIYADH, SAUDI ARABIA, DECEMBER 10-12, 2019, PROCEEDINGS, PART I

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**Springer Nature** *This book constitutes the refereed proceedings of the First International Conference on Intelligent Cloud Computing, ICC 2019, held in Riyadh, Saudi Arabia, in December 2019. The two-volume set presents 53 full papers, which were carefully reviewed and selected from 174 submissions. The papers are organized in topical sections on Cyber Security; Data Science; Information Technology and Applications; Network and IoT.*

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#### NONLINEAR TIME SERIES

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#### NONPARAMETRIC AND PARAMETRIC METHODS

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**Springer Science & Business Media** *This is the first book that integrates useful parametric and nonparametric techniques with time series modeling and prediction, the two important goals of time series analysis. Such a book will benefit researchers and practitioners in various fields such as*

econometricians, meteorologists, biologists, among others who wish to learn useful time series methods within a short period of time. The book also intends to serve as a reference or text book for graduate students in statistics and econometrics.

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## COHERENT QUANTUM PHYSICS

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### A REINTERPRETATION OF THE TRADITION

**Walter de Gruyter GmbH & Co KG** This book introduces mathematicians, physicists, and philosophers to a new, coherent approach to theory and interpretation of quantum physics, in which classical and quantum thinking live peacefully side by side and jointly fertilize the intuition. The formal, mathematical core of quantum physics is cleanly separated from the interpretation issues. The book demonstrates that the universe can be rationally and objectively understood from the smallest to the largest levels of modeling. The thermal interpretation featured in this book succeeds without any change in the theory. It involves one radical step, the reinterpretation of an assumption that was virtually never questioned before - the traditional eigenvalue link between theory and observation is replaced by a q-expectation link: Objective properties are given by q-expectations of products of quantum fields and what is computable from these. Averaging over macroscopic spacetime regions produces macroscopic quantities with negligible uncertainty, and leads to classical physics. - Reflects the actual practice of quantum physics. - Models the quantum-classical interface through coherent spaces. - Interprets both quantum mechanics and quantum field theory. - Eliminates probability and measurement from the foundations. - Proposes a novel solution of the measurement problem.

### SMALL GROUP TEACHING

### TUTORIALS, SEMINARS AND BEYOND

**Routledge** This indispensable guide for new university or college teachers brings together straightforward and practical advice on small group teaching as well as examples of practice across disciplines and a sprinkling of sound educational theory. Written in a highly accessible jargon-free style, this book comprehensively covers critical areas such as: the underpinning foundations and dynamics of small group teaching the role and skills of the effective tutor tried and tested small group teaching methods and techniques guidance on problem-based learning, student-led and tutor-less tutorials up-to-date advice on inclusive and non-discriminatory practice a review of assessment criteria and methods. The book offers much needed support and guidance for new and part-time teachers in further and higher education, covering a wide range of teaching scenarios. It will also be critical reading for all those who wish to refresh or invigorate their teaching.

### COMPUTATIONAL MOLECULAR EVOLUTION

**Oxford University Press** This book describes the models, methods and algorithms that are most useful for analysing the ever-increasing supply of molecular sequence data, with a view to furthering our understanding of the evolution of genes and genomes.

### DATA TRAFFIC MONITORING AND ANALYSIS

### FROM MEASUREMENT, CLASSIFICATION, AND ANOMALY DETECTION TO QUALITY OF EXPERIENCE

**Springer** This book was prepared as the Final Publication of COST Action IC0703 "Data Traffic Monitoring and Analysis: theory, techniques, tools and applications for the future networks". It contains 14 chapters which demonstrate the results, quality, and the impact of European research in the field of TMA in line with the scientific objective of the Action. The book is structured into three parts: network and topology measurement and modelling, traffic classification and anomaly detection, quality of experience.

### ANT ALGORITHMS

### THIRD INTERNATIONAL WORKSHOP, ANTS 2002, BRUSSELS, BELGIUM, SEPTEMBER 12-14, 2002. PROCEEDINGS

**Springer Science & Business Media** 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

### LYMPHEDEMA

### A CONCISE COMPENDIUM OF THEORY AND PRACTICE

**Springer** The second edition of this book serves as a central source of theoretical and practical knowledge to optimize the evaluation and treatment of patients with lymphedema. The book covers all aspects of the disease from anatomical and histological features to diagnosis as well as physical/medical and surgical management of the disease. Updated from the first edition to reflect the substantial progress in diagnostics, medical care and surgical intervention for this patient population, this volume has been reorganized to meet today's practice requirements. It addresses the challenges faced by clinicians in the management of chronic lymphedema enabling them to meet the medical needs of this large patient community. Edited by world leaders in Vascular Medicine and Surgery, this comprehensive volume provides clear, concise background and recommendations in an easy-to-use format. It is a valuable reference tool for clinical practitioners (physicians/nurse practitioners/technicians) who wish to deliver state-of-the-art health care to their patients with lymphatic and venous disorders.

### INTRODUCING TRANSLATION STUDIES

### THEORIES AND APPLICATIONS

**Routledge** This textbook provides an accessible overview of the key contributions to translation theory. Each chapter explores a new theory and approaches are tested by applying them to texts from a range of languages, with English translations provided.

### NERD - NEW EXPERIMENTAL RESEARCH IN DESIGN

**Birkhäuser** Design has long expressed and established itself as an independent research competence - a fact that also companies, institutions and politicians have come to acknowledge. What is still needed, however, is a stronger public platform for design to confidently reflect upon this process and to establish and communicate the specific innovative and experimental dimension of design research. For this reason, BIRD, the Board of International Research in Design, has developed the New Experimental Research in Design / NERD format. The edited conference contributions of twelve young researchers from all over the world provide an impressive and diverse and insightful range of intelligent and inspiring approaches in design research, giving rise to further debate and action in the rapidly evolving field.

### RNA FOLDING

### METHODS AND PROTOCOLS

**Humana Press** Focusing on in vitro and intracellular RNA structure formation, RNA Folding: Methods and Protocols provides a comprehensive collection of experimental protocols which are suitable to dissect RNA folding pathways and to characterize the structure of RNA folding intermediates at nucleotide or even atomic resolution. The presented techniques include powerful tools with a long tradition in RNA research as well as more advanced, novel methods, thus the methods span multiple disciplines, including molecular biology, biochemistry, biophysics, and computational biology. Written in

the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Practical and authoritative, *RNA Folding: Methods and Protocols* serves as a vital reference for researchers attempting to gain insights into the secrets of this astounding macromolecule.

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## WALTER KOHN

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### PERSONAL STORIES AND ANECDOTES TOLD BY FRIENDS AND COLLABORATORS

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**Springer Science & Business Media** *This is not a science book, nor even a book about science, although most of the contributors are scientists. It is a book of personal stories about Walter Kohn, a theoretical physicist and winner of half of the 1998 Nobel Prize in Chemistry. Walter Kohn originated and/or refined a number of very important theoretical approaches and concepts in solid-state physics. He is known in particular for Density-Functional Theory. This book represents a kind of "oral history" about him, gathered - in anticipation of his 80th birthday - from former students, collaborators, fellow-scientists, and friends.*

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### COMPARATIVE POLICY STUDIES

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### CONCEPTUAL AND METHODOLOGICAL CHALLENGES

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**Springer** *In the first volume of its kind, a collection of top policy scholars combine empirical and methodological analysis in the field of comparative policy studies to provide compelling insights into the formulation, implementation and evaluation of policies across regional and national boundaries.*

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### CHALLENGES IN CYBERSECURITY AND PRIVACY

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### THE EUROPEAN RESEARCH LANDSCAPE

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*Cybersecurity and Privacy issues are becoming an important barrier for a trusted and dependable global digital society development. In this context, new holistic approaches, methodologies, techniques and tools are needed to cope with those issues, and mitigate cyberattacks*

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### RADIONUCLIDES IN THE ENVIRONMENT

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**John Wiley & Sons** *Nuclear energy is the one energy source that could meet the world's growing energy needs and provide a smooth transition from fossil fuels to renewable energy in the coming decades and centuries. It is becoming abundantly clear that an increase in nuclear energy capacity will, and probably must, take place. However, nuclear energy and the use of radionuclides for civilian and military purposes lead to extremely long-lived waste that is costly and highly problematic to deal with. Therefore, it is critically important to understand the environmental implications of radionuclides for ecosystems and human health if nuclear energy is to be used to avoid the impending global energy crisis. The present volume of the EIC Books series addresses this critical need by providing fundamental information on environmentally significant radionuclides. The content of this book was developed in collaboration with many of the authors of the chapters. Given the enormity of the subject the Editor and the Authors had to be judicious in selecting the chapters that would appropriately encompass and describe the primary topics, particularly those that are of importance to the health of ecosystems and humans. The resulting chapters were chosen to provide this information in a book of useful and appropriate length. Each chapter provides fundamental information on the chemistry of the radionuclides, their occurrence and movement in the environment, separation and analyses, and the technologies needed for their remediation and mitigation. The chapters are structured with a common, systematic format in order to facilitate comparisons between elements and groups of elements. About EIC Books The Encyclopedia of Inorganic Chemistry (EIC) has proved to be one of the defining standards in inorganic chemistry, and most chemistry libraries around the world have access either to the first or second print edition, or to the online version. Many readers, however, prefer to have more concise thematic volumes, targeted to their specific area of interest. This feedback from EIC readers has encouraged the Editors to plan a series of EIC Books, focusing on topics of current interest. They will appear on a regular basis, and will feature leading scholars in their fields. Like the Encyclopedia, EIC Books aims to provide both the starting research student and the confirmed research worker with a critical distillation of the leading concepts in inorganic and bioinorganic chemistry, and provide a structured entry into the fields covered. This volume is also available as part of Encyclopedia of Inorganic Chemistry, 5 Volume Set. This set combines all volumes published as EIC Books from 2007 to 2010, representing areas of key developments in the field of inorganic chemistry published in the Encyclopedia of Inorganic Chemistry. <http://eu.wiley.com/WileyCDA/WileyTitle/productCd-1119994284.html> Find out more/a.*

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### THE SIAM 100-DIGIT CHALLENGE

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### A STUDY IN HIGH-ACCURACY NUMERICAL COMPUTING

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**SIAM** *This book takes readers on a thrilling tour of some of the most important and powerful areas of contemporary numerical mathematics. The tour is organized along the 10 problems of the SIAM 100-Digit Challenge, a contest posed by Nick Trefethen of Oxford University in the January/February 2002 issue of SIAM News. The complete story of the contest as well as a lively interview with Nick Trefethen are also included. The authors, members of teams that solved all 10 problems, show in detail multiple approaches for solving each problem, ranging from elementary to sophisticated, from brute-force to schemes that can be scaled to provide thousands of digits of accuracy and that can solve even larger related problems. The authors touch on virtually every major technique of modern numerical analysis: matrix computation, iterative linear methods, limit extrapolation and convergence acceleration, numerical quadrature, contour integration, discretization of PDEs, global optimization, Monte Carlo and evolutionary algorithms, error control, interval and high-precision arithmetic, and many more.*

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### ECONOPHYSICS OF ORDER-DRIVEN MARKETS

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**Springer Science & Business Media** *The primary goal of the book is to present the ideas and research findings of active researchers from various communities (physicists, economists, mathematicians, financial engineers) working in the field of "Econophysics", who have undertaken the task of modelling and analyzing order-driven markets. Of primary interest in these studies are the mechanisms leading to the statistical regularities ("stylized facts") of price statistics. Results pertaining to other important issues such as market impact, the profitability of trading strategies, or mathematical models for microstructure effects, are also presented. Several leading researchers in these fields report on their recent work and also review the contemporary literature. Some historical perspectives, comments and debates on recent issues in Econophysics research are also included.*

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### FORMAL ONTOLOGY IN INFORMATION SYSTEMS

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### PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE (FOIS 2006)

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**IOS Press** *Researchers in areas such as artificial intelligence, formal and computational linguistics, biomedical informatics, conceptual modeling, knowledge engineering and information retrieval have come to realise that a solid foundation for their research calls for serious work in ontology, understood as a general theory of the types of entities and relations that make up their respective domains of inquiry. In all these areas, attention is now being focused on the content of information rather than on just the formats and languages used to represent information. The clearest example of this development is provided by the many initiatives growing up around the project of the Semantic Web. And, as the need for integrating research in these different fields arises, so does the realisation that strong principles for building well-founded ontologies might provide significant advantages over ad hoc, case-based solutions. The tools of formal ontology address precisely these needs, but a real effort is required in order to apply such philosophical tools to the domain of information systems. Reciprocally, research in the information sciences raises specific ontological questions which call for further philosophical investigations. The purpose of FOIS is to provide a forum for genuine interdisciplinary exchange in the spirit of a unified effort towards solving the problems of ontology, with an eye to both theoretical issues and concrete applications. This book contains a wide range of areas, all of which are important to the development of formal ontologies.*

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### CONCEPTS, STRATEGIES AND MODELS TO ENHANCE PHYSICS TEACHING AND LEARNING

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**Springer** *This book discusses novel research on and practices in the field of physics teaching and learning. It gathers selected high-quality studies that were presented at the GIREP-ICPE-EPEC 2017 conference, which was jointly organised by the International Research Group on Physics Teaching (GIREP); European Physical Society - Physics Education Division, and the Physics Education Commission of the International Union of Pure and Applied Physics (IUPAP). The respective chapters address a wide variety of topics and approaches, pursued in various contexts and settings, all of which*

represent valuable contributions to the field of physics education research. Examples include the design of curricula and strategies to develop student competencies—including knowledge, skills, attitudes and values; workshop approaches to teacher education; and pedagogical strategies used to engage and motivate students. This book shares essential insights into current research on physics education and will be of interest to physics teachers, teacher educators and physics education researchers around the world who are working to combine research and practice in physics teaching and learning.

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#### PERFORMANCE EVALUATION OF COMPUTER AND COMMUNICATION SYSTEMS. MILESTONES AND FUTURE CHALLENGES

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#### IFIP WG 6.3/7.3 INTERNATIONAL WORKSHOP, PERFORM 2010, IN HONOR OF GÜNTER HARING ON THE OCCASION OF HIS EMERITUS CELEBRATION, VIENNA, AUSTRIA, OCTOBER 14-16, 2010, REVISED SELECTED PAPERS

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**Springer** This Festschrift volume is published in honor of Günter Haring on the occasion of his emerital celebration and contains invited papers by key researchers in the field of performance evaluation presented at the workshop Performance Evaluation of Computer and Communication Systems - Milestones and Future Challenges, PERFORM 2010, held in Vienna, Austria, in October 2010. Günter Haring has dedicated most of his scientific professional life to performance evaluation and the design of distributed systems, contributing in particular to the field of workload characterization. In addition to his own contributions and leadership in international research projects, he is and has been an excellent mentor of young researchers demonstrated by their own brilliant scientific careers. The 20 thoroughly refereed papers range from visionary to in-depth research papers and are organized in the following topical sections: milestones and evolutions; trends: green ICT and virtual machines; modeling; mobility and mobile networks; communication and computer networks; and load balancing, analysis, and management.

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#### ESCAPING POVERTY

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#### THE ORIGINS OF MODERN ECONOMIC GROWTH

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**Vandenhoeck & Ruprecht** One of the biggest debates in economic history deals with the Great Divergence. How can we explain that at a certain moment in time (the eighteenth and nineteenth centuries) a certain part of the world (the West) escaped from general poverty and became much richer than it had ever been before and than the rest of the world? Many prominent scholars discussed this question and came up with many different answers. This book provides a systematic analysis of the most important of those answers by means of an analysis of possible explanations in terms of natural resources, labour, capital, the division of labour and market exchange, accumulation and innovation, and as potential underlying determining factors institutions and culture. The author juxtaposes the views of economists / social scientists and of global historians and systematically compares Great Britain and China to illustrate his position. He qualifies the importance of natural resources, accumulation and the extension of markets, points at the importance of factor prices and changes in consumption and emphasizes the role of innovation, institutions - in particular an active developmental state - and culture.

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#### EVOLUTIONARY GENOMICS

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#### STATISTICAL AND COMPUTATIONAL METHODS

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#### DISCOURSE IN CONTENT AND LANGUAGE INTEGRATED LEARNING (CLIL) CLASSROOMS

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**John Benjamins Publishing** The label CLIL stands for classrooms where a foreign language (English) is used as a medium of instruction in content subjects. This book provides a first in-depth analysis of the kind of communicative abilities which are embodied in such CLIL classrooms. It examines teacher and student talk at secondary school level from different discourse-analytic angles, taking into account the interpersonal pragmatics of classroom discourse and how school subjects are talked into being during lessons. The analysis shows how CLIL classroom interaction is strongly shaped by its institutional context, which in turn conditions the ways in which students experience, use and learn the target language. The research presented here suggests that CLIL programmes require more explicit language learning goals in order to fully exploit their potential for furthering the learners' appropriation of a foreign language as a medium of learning.

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#### THE FUTURE INTERNET

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#### FUTURE INTERNET ASSEMBLY 2011: ACHIEVEMENTS AND TECHNOLOGICAL PROMISES

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**Springer** Irrespective of whether we use economic or societal metrics, the Internet is one of the most important technical infrastructures in existence today. It will be a catalyst for much of our innovation and prosperity in the future. A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies. Future Internet research is therefore a must. This book is published in full compliance with the Open Access publishing initiative; it is based on the research carried out within the Future Internet Assembly (FIA). It contains a sample of representative results from the recent FIA meetings spanning a broad range of topics, all being of crucial importance for the future Internet. The book includes 32 contributions and has been structured into the following sections, each of which is preceded by a short introduction: Foundations: architectural issues; socio-economic issues; security and trust; and experiments and experimental design. Future Internet Areas: networks, services, and content; and applications.

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#### ENGLISH AS A LINGUA FRANCA IN HIGHER EDUCATION

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#### A LONGITUDINAL STUDY OF CLASSROOM DISCOURSE

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**Walter de Gruyter** Review text: This book is an important contribution to research on multilingualism: the author does not only discuss theoretical aspects of this research field but also attempts to verify theoretical premises with respect to their empirical validity. (Dieter Wolff, Bergische Universität Wuppertal).

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#### THE STATISTICAL THEORY OF LINEAR SYSTEMS

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**SIAM** Originally published: New York: Wiley, c1988.

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#### REMAKING PARTICIPATION

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#### SCIENCE, ENVIRONMENT AND EMERGENT PUBLICS

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**Routledge** Changing relations between science and democracy - and controversies over issues such as climate change, energy transitions, genetically modified organisms and smart technologies - have led to a rapid rise in new forms of public participation and citizen engagement. While most existing approaches adopt fixed meanings of 'participation' and are consumed by questions of method or critiquing the possible limits of democratic engagement, this book offers new insights that rethink public engagements with science, innovation and environmental issues as diverse, emergent and in the making. Bringing together leading scholars on science and democracy, working between science and technology studies, political theory, geography, sociology and anthropology, the volume develops relational and co-productionist approaches to studying and intervening in spaces of participation. New empirical insights into the making, construction, circulation and effects of participation across cultures are illustrated through examples ranging from climate change and energy to nanotechnology and mundane technologies, from institutionalised deliberative processes to citizen-led innovation and activism, and from the global north to global south. This new way of seeing participation in science and democracy opens up alternative paths for reconfiguring and remaking participation in more experimental, reflexive, anticipatory and responsible ways. This ground-breaking book is essential reading for scholars and students of participation across the critical social sciences and beyond, as well as those seeking to build more transformative participatory practices.

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## MASTERING THE INFORMATION AGE - SOLVING PROBLEMS WITH VISUAL ANALYTICS

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Florian Mansmann

### CULTURAL HISTORY IN EUROPE

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#### INSTITUTIONS - THEMES - PERSPECTIVES

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**transcript Verlag** *What is the current state of discussion in Cultural History? Which European institutions engage exclusively in Cultural History and which topics do they address? And how will Cultural History develop in the future? These and other questions are raised by European scholars in the discussion of Institutions, Themes and Perspectives of Cultural History in this volume. It provides a profound overview of contemporary developments in Scandinavia, Finland, Great Britain, Latvia, Poland, Hungary, Austria, Switzerland, Germany, Italy and Spain.*

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#### NONEQUILIBRIUM AND IRREVERSIBILITY

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**Springer** *This book concentrates on the properties of the stationary states in chaotic systems of particles or fluids, leaving aside the theory of the way they can be reached. The stationary states of particles or of fluids (understood as probability distributions on microscopic configurations or on the fields describing continua) have received important new ideas and data from numerical simulations and reviews are needed. The starting point is to find out which time invariant distributions come into play in physics. A special feature of this book is the historical approach. To identify the problems the author analyzes the papers of the founding fathers Boltzmann, Clausius and Maxwell including translations of the relevant (parts of) historical documents. He also establishes a close link between treatment of irreversible phenomena in statistical mechanics and the theory of chaotic systems at and beyond the onset of turbulence as developed by Sinai, Ruelle, Bowen (SRB) and others: the author gives arguments intending to support strongly the viewpoint that stationary states in or out of equilibrium can be described in a unified way. In this book it is the "chaotic hypothesis", which can be seen as an extension of the classical ergodic hypothesis to non equilibrium phenomena, that plays the central role. It is shown that SRB - often considered as a kind of mathematical playground with no impact on physical reality - has indeed a sound physical interpretation; an observation which to many might be new and a very welcome insight. Following this, many consequences of the chaotic hypothesis are analyzed in chapter 3 - 4 and in chapter 5 a few applications are proposed. Chapter 6 is historical: carefully analyzing the old literature on the subject, especially ergodic theory and its relevance for statistical mechanics; an approach which gives the book a very personal touch. The book contains an extensive coverage of current research (partly from the authors and his coauthors publications) presented in enough detail so that advanced students may get the flavor of a direction of research in a field which is still very much alive and progressing. Proofs of theorems are usually limited to heuristic sketches privileging the presentation of the ideas and providing references that the reader can follow, so that in this way an overload of this text with technical details could be avoided.*

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#### SHAPES AND DIFFEOMORPHISMS

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**Springer Science & Business Media** *Shapes are complex objects to apprehend, as mathematical entities, in terms that also are suitable for computerized analysis and interpretation. This volume provides the background that is required for this purpose, including different approaches that can be used to model shapes, and algorithms that are available to analyze them. It explores, in particular, the interesting connections between shapes and the objects that naturally act on them, diffeomorphisms. The book is, as far as possible, self-contained, with an appendix that describes a series of classical topics in mathematics (Hilbert spaces, differential equations, Riemannian manifolds) and sections that represent the state of the art in the analysis of shapes and their deformations. A direct application of what is presented in the book is a branch of the computerized analysis of medical images, called computational anatomy.*

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#### VARIATION IN TIME AND SPACE

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#### OBSERVING THE WORLD THROUGH CORPORA

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**Walter de Gruyter GmbH & Co KG** *Variation in Time and Space: Observing the World through Corpora is a collection of articles that address the theme of linguistic variation in English in its broadest sense. Current research in English language presented in the book explores a fascinating number of topics, whose unifying element is the corpus linguistic methodology. Part I of this volume, Meaning in Time and Space, introduces the two dimensions of variation - time and space - relating them to the negotiation of meaning in discourse and questions of intertextuality. Part II, Variation in Time, approaches the English language from a diachronic point of view; the time periods covered vary considerably, ranging from 16th century up to present-day; so do the genres explored. Part III, Variation in Space, focuses on global varieties of English and includes a contrastive point of view. The range of topics is again broad - from specific lexico-grammatical structures to the variation in academic English, combining the regional and genre dimensions of variation. This is a timely volume that shows the breadth and depth in current corpus-based research of English.*

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#### MODELING AND USING CONTEXT

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#### THIRD INTERNATIONAL AND INTERDISCIPLINARY CONFERENCE, CONTEXT, 2001, DUNDEE, UK, JULY 27-30, 2001, PROCEEDINGS

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**Springer** *Context has emerged as a central concept in a variety of contemporary approaches to reasoning. The conference at which the papers in this volume were presented was the third international, interdisciplinary conference on the topic of context, and was held in Dundee, Scotland on July 27-30, 2001. The first conference in this series was held in Rio de Janeiro in 1997, and the second in Trento in 1999. Like the previous conferences, CONTEXT 2001 was remarkably successful in bringing together representatives of many different fields, spanning the entire range of the cognitive and informational sciences, and with interests ranging from specific, commercial applications to highly general philosophical and logical theories. The papers collected here demonstrate well the range of context-related research. While foundational problems remain, and continue to be discussed in many of the contributions collected in this volume, the work shows increased sophistication about what forms of reasoning are important, and what techniques are appropriate in accounting for them. The papers themselves, however, do not convey the lively excitement of the conference itself, and the continuing spirit of cooperation and communication across disciplines that has been the hallmark of these conferences. We are very pleased that the field of context research has shown over four years intense, sustained development while retaining this sense of interdisciplinary cooperation.*

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#### COMMUNICATION AND MEDIA ETHICS

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*"Ethics in communication and media has arguably reached a pivotal stage of maturity in the last decade, moving from disparate lines of inquiry to a theory-driven, interdisciplinary field presenting normative frameworks and philosophical explications for communicative practices. The intent of this volume is to present this maturation, to reflect the vibrant state of ethics theorizing and to illuminate promising pathways for future research"--*

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