

Adi Haim-Sonin

Applied Data-Centric Social Sciences

Concepts, Data, Computation, and Theory



Springer

Applied Data Centric Social Sciences Concepts Data Computation And Theory

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Applied Data Centric Social Sciences Concepts Data Computation And Theory:

Applied Data-Centric Social Sciences Aki-Hiro Sato,2014-07-29 Applied data centric social sciences aim to develop both methodology and practical applications of various fields of social sciences and businesses with rich data Specifically in the social sciences a vast amount of data on human activities may be useful for understanding collective human nature In this book the author introduces several mathematical techniques for handling a huge volume of data and analysing collective human behaviour The book is constructed from data oriented investigation with mathematical methods and expressions used for dealing with data for several specific problems The fundamental philosophy underlying the book is that both mathematical and physical concepts are determined by the purposes of data analysis This philosophy is shown throughout exemplar studies of several fields in socio economic systems From a data centric point of view the author proposes a concept that may change people s minds and cause them to start thinking from the basis of data Several goals underlie the chapters of the book The first is to describe mathematical and statistical methods for data analysis and toward that end the author delineates methods with actual data in each chapter The second is to find a cyber physical link between data and data generating mechanisms as data are always provided by some kind of data generating process in the real world The third goal is to provide an impetus for the concepts and methodology set forth in this book to be applied to socio economic systems

Applications of Data-Centric Science to Social Design Aki-Hiro Sato,2019-07-04 The intention behind this book is to illustrate the deep relation among human behavior data centric science and social design In fact these three issues have been independently developing in different fields although they are of course deeply interrelated to one another Specifically fundamental understanding of human behavior should be employed for investigating our human society and designing social systems Insights and both quantitative and qualitative understandings of collective human behavior are quite useful when social systems are designed Fundamental principles of human behavior theoretical models of human behavior and information cascades are addressed as aspects of human behavior Data driven investigation of human nature social behavior and societal systems are developed as aspects of data centric science As design aspects how to design social systems from heterogeneous memberships is explained There is also discussion of these three aspects human behavior data centric science and social design independently and with regard to the relationships among them [The Oxford Handbook of the Sociology of Machine Learning](#) Juan Pablo Pardo-Guerra,2025-04 Machine learning renowned for its ability to detect patterns in large datasets has seen a significant increase in applications and complexity since the early 2000s The Oxford Handbook of the Sociology of Machine Learning offers a state of the art and forward looking overview of the intersection between machine learning and sociology exploring what sociology can gain from machine learning and how it can shed new light on the societal implications of this technology Through its 39 chapters an international group of sociologists address three key questions First what can sociologists yield from using machine learning as a methodological tool This question is examined

across various data types including text images and sound with insights into how machine learning and ethnography can be combined Second how is machine learning being used throughout society and what are its consequences The Handbook explores this question by examining the assumptions and infrastructures behind machine learning applications as well as the biases they might perpetuate Themes include art cities expertise financial markets gender race intersectionality law enforcement medicine and the environment covering contexts across the Global South and Global North Third what does machine learning mean for sociological theory and theorizing Chapters examine this question through discussions on agency culture human machine interaction influence meaning power dynamics prediction and postcolonial perspectives The Oxford Handbook of the Sociology of Machine Learning is an essential resource for academics and students interested in artificial intelligence computational social science and the role and implications of machine learning in society

Data Science Concepts and Techniques with Applications Usman Qamar, Muhammad Summair Raza, 2020-06-08 This book comprehensively covers the topic of data science Data science is an umbrella term that encompasses data analytics data mining machine learning and several other related disciplines This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity The chapters of this book are organized into three sections The first section is an introduction to data science Starting from the basic concepts the book will highlight the types of data its use its importance and issues that are normally faced in data analytics Followed by discussion on wide range of applications of data science and widely used techniques in data science The second section is devoted to the tools and techniques of data science It consists of data pre processing feature selection classification and clustering concepts as well as an introduction to text mining and opinion mining And finally the third section of the book focuses on two programming languages commonly used for data science projects i e Python and R programming language Although this book primarily serves as a textbook it will also appeal to industrial practitioners and researchers due to its focus on applications and references The book is suitable for both undergraduate and postgraduate students as well as those carrying out research in data science It can be used as a textbook for undergraduate students in computer science engineering and mathematics It can also be accessible to undergraduate students from other areas with the adequate background The more advanced chapters can be used by postgraduate researchers intending to gather a deeper theoretical understanding

Social Science Microsimulation Klaus G. Troitzsch, 1996-09-17 This book gives an overview of the state of the art in five different approaches to social science simulation on the individual level The volume contains microanalytical simulation models designed for policy implementation and evaluation multilevel simulation methods designed for detecting emergent phenomena dynamical game theory applications the use of cellular automata to explain the emergence of structure in social systems and multi agent models using the experience from distributed artificial intelligence applied to special phenomena The book collects the results of an international conference which brought together social scientists and computer scientists both engaged in a wide range of

simulation approaches for the first time *Computational Social Science in the Age of Big Data* Martin Welker, Cathleen M. Stützer, Marc Egger, 2018-02-19 Der Sammelband *Computational Social Science in the Age of Big Data* beschäftigt sich mit Konzepten Methoden Tools und Anwendungen automatisierter datengetriebener Forschung mit sozialwissenschaftlichem Hintergrund Der Fokus des Bandes liegt auf der Etablierung der Computational Social Science CSS als aufkommendes Forschungs und Anwendungsfeld Es werden Beiträge international namhafter Autoren präsentiert die forschungs und praxisrelevante Themen dieses Bereiches besprechen Die Herausgeber forcieren dabei einen interdisziplinären Zugang zum Feld der sowohl Online Forschern aus der Wissenschaft wie auch aus der angewandten Marktforschung einen Einstieg bietet

Handbook of Dynamic Data Driven Applications Systems Frederica Darema, Erik P. Blasch, Sai Ravela, Alex J. Aved, 2023-09-14 This Second Volume in the series *Handbook of Dynamic Data Driven Applications Systems* DDDAS expands the scope of the methods and the application areas presented in the first Volume and aims to provide additional and extended content of the increasing set of science and engineering advances for new capabilities enabled through DDDAS The methods and examples of breakthroughs presented in the book series capture the DDDAS paradigm and its scientific and technological impact and benefits The DDDAS paradigm and the ensuing DDDAS based frameworks for systems analysis and design have been shown to engender new and advanced capabilities for understanding analysis and management of engineered natural and societal systems applications systems and for the commensurate wide set of scientific and engineering fields and applications as well as foundational areas The DDDAS book series aims to be a reference source of many of the important research and development efforts conducted under the rubric of DDDAS and to also inspire the broader communities of researchers and developers about the potential in their respective areas of interest of the application and the exploitation of the DDDAS paradigm and the ensuing frameworks through the examples and case studies presented either within their own field or other fields of study As in the first volume the chapters in this book reflect research work conducted over the years starting in the 1990 s to the present Here the theory and application content are considered for Foundational Methods Materials Systems Structural Systems Energy Systems Environmental Systems Domain Assessment address challenges that ML alone does not and also show how ML in combination with DDDAS based methods can deliver the advanced capabilities sought likewise infusion of DDDAS like approaches in NN methods strengthens such methods Moreover the DDDAS based Digital Twin or Dynamic Digital Twin goes beyond the traditional DT notion where the model and the physical system are viewed side by side in a static way to a paradigm where the model dynamically interacts with the physical system through its instrumentation per the DDDAS feed back control loop between model and instrumentation

Advances in the Leading Paradigms of Urbanism and their Amalgamation Simon Elias Bibri, 2020-06-20 This book explores the recent advances in the leading paradigms of urbanism namely compact cities eco cities and data driven smart cities and the evolving approach to their amalgamation under the umbrella term of smart sustainable cities It addresses

these advances by investigating how and to what extent the strategies of compact cities and eco cities and their merger have been enhanced and strengthened through new planning and development practices and are being supported and leveraged by the applied solutions pertaining to data driven smart cities The ultimate goal is to advance sustainability and harness its synergistic effects on multiple scales This entails developing and implementing more effective approaches to the balanced integration of the three dimensions of sustainability as well as to producing combined effects of the strategies and solutions of the prevailing approaches to urbanism that are greater than the sum of their separate effects in terms of the tripartite value of sustainability Sustainable urban development is today seen as one of the keys towards unlocking the quest for a sustainable world And the big data revolution is set to erupt in cities throughout the world heralding an era where instrumentation datafication and computation are increasingly pervading the very fabric of cities and the spaces we live in thanks to the IoT Big data and the IoT technologies are seen as powerful forces that have tremendous potential for advancing urban sustainability Indeed they are instigating a massive change in the way sustainable cities can tackle the kind of special conundrums wicked problems and significant challenges they inherently embody as complex systems They offer a multitudinous array of innovative solutions and sophisticated approaches informed by groundbreaking research and data driven science As such they are becoming essential to the functioning of sustainable cities Besides yet knowing to what extent we are making progress towards sustainable cities is problematic adding to the fragmented conflicting picture that arises of change on the ground in the face of the escalating rate and scale of urbanization and in the light of emerging ICT and its novel applications In a nutshell new circumstances require new responses This timely and multifaceted book is intended for a wide readership As such it will appeal to researchers academics urban scientists urbanists planners designers policy makers and futurists as well as all readers interested in sustainable cities and their ongoing and future data driven transformation

Computational Modeling for Industrial-Organizational Psychologists Jeffrey B. Vancouver, Mo Wang, Justin M. Weinhardt, 2023-11-02 This collection provides a primer to the process and promise of computational modeling for industrial organizational psychologists With contributions by global experts in the field the book is designed to expand readers appreciation for computational modeling via chapters focused on key modeling achievements in domains relevant to industrial organizational psychology including decision making in organizations diversity and inclusion learning and training leadership and teams To move the use of computational modeling forward the book includes specific how to chapters on two of the most commonly used modeling approaches agent based modeling and system dynamics modeling It also gives guidance on how to evaluate these models qualitatively and quantitatively and offers advice on how to read review and publish papers with computational models The authors provide an extensive description of the myriad of values computational modeling can bring to the field highlighting how they offer a more transparent precise way to represent theories and can be simulated to offer a test of the internal consistency of a theory and allow for predictions This is

accompanied by an overview of the history of computational modeling as it relates to I O psychology Throughout the authors reflect on computational modeling s journey looking back to its history as they imagine its future in I O psychology Each contribution demonstrates the value and opportunities computational modeling can provide the individual researcher research teams and fields of I O psychology and management This volume is an ideal resource for anyone interested in computational modeling from scholarly consumers to computational model creators Chapter 1 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

Computational Science - ICCS 2024 Leonardo Franco,Clélia de Mulatier,Maciej Paszynski,Valeria V. Krzhizhanovskaya,Jack J. Dongarra,Peter M. A. Slood,2024-06-28 The 7 volume set LNCS 14832 14838 constitutes the proceedings of the 24th International Conference on Computational Science ICCS 2024 which took place in Malaga Spain during July 2 4 2024 The 155 full papers and 70 short papers included in these proceedings were carefully reviewed and selected from 430 submissions They were organized in topical sections as follows Part I ICCS 2024 Main Track Full Papers Part II ICCS 2024 Main Track Full Papers Part III ICCS 2024 Main Track Short Papers Advances in High Performance Computational Earth Sciences Numerical Methods Frameworks and Applications Artificial Intelligence and High Performance Computing for Advanced Simulations Part IV Biomedical and Bioinformatics Challenges for Computer Science Computational Health Part V Computational Optimization Modelling and Simulation Generative AI and Large Language Models LLMs in Advancing Computational Medicine Machine Learning and Data Assimilation for Dynamical Systems Multiscale Modelling and Simulation Part VI Network Models and Analysis From Foundations to Artificial Intelligence Numerical Algorithms and Computer Arithmetic for Computational Science Quantum Computing Part VII Simulations of Flow and Transport Modeling Algorithms and Computation Smart Systems Bringing Together Computer Vision Sensor Networks and Artificial Intelligence Solving Problems with Uncertainties Teaching Computational Science

Innovations in Smart Cities Applications Edition 3 Mohamed Ben Ahmed,Anouar Abdelhakim Boudhir,Domingos Santos,Mohamed El Aroussi,İsmail Rakıp Karas,2020-02-04 This book highlights original research and recent advances in various fields related to smart cities and their applications It gathers papers presented at the Fourth International Conference on Smart City Applications SCA19 held on October 2 4 2019 in Casablanca Morocco Bringing together contributions by prominent researchers from around the globe the book offers an invaluable instructional and research tool for courses on computer science electrical engineering and urban sciences It is also an excellent reference guide for professionals researchers and academics in the field of smart cities This book covers topics including Smart Citizenship Smart Education Digital Business and Smart Governance Smart Health Care New Generation of Networks and Systems for Smart Cities Smart Grids and Electrical Engineering Smart Mobility Smart Security Sustainable Building Sustainable Environment

Computational Science and Its Applications - ICCSA 2023 Workshops Osvaldo Gervasi,Beniamino

Murgante, Ana Maria A. C. Rocha, Chiara Garau, Francesco Scorza, Yeliz Karaca, Carmelo M. Torre, 2023-06-28 This nine volume set LNCS 14104 14112 constitutes the refereed workshop proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Athens Greece during July 3 6 2023 The 350 full papers and 29 short papers and 2 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 876 submissions These nine volumes includes the proceedings of the following workshops Advances in Artificial Intelligence Learning Technologies Blended Learning STEM Computational Thinking and Coding AAILT 2023 Advanced Processes of Mathematics and Computing Models in Complex Computational Systems APMC 2023 Artificial Intelligence supported Medical data examination AIM 2023 Advanced and Innovative web Apps AIWA 2023 Assessing Urban Sustainability ASUS 2023 Advanced Data Science Techniques with applications in Industry and Environmental Sustainability ATELIER 2023 Advances in Web Based Learning AWBL 2023 Blockchain and Distributed Ledgers Technologies and Applications BDLTA 2023 Bio and Neuro inspired Computing and Applications BIONCA 2023 Choices and Actions for Human Scale Cities Decision Support Systems CAHSC DSS 2023 and Computational and Applied Mathematics CAM 2023 **Statistics and Data Analysis Essentials** Jayant Ramaswamy, 2025-02-20 Statistics and Data Analysis Essentials is a comprehensive guide that helps readers master statistical concepts and their practical applications Crafted by experts this textbook combines clear explanations real world examples and engaging exercises to enhance learning We cover a broad spectrum of topics including descriptive statistics inferential statistics regression analysis and hypothesis testing making each section accessible to learners of all levels Real life case studies from diverse fields such as economics psychology biology and engineering demonstrate the relevance of statistical methods Each chapter offers exercises from basic calculations to complex data analysis tasks helping readers practice and solidify their skills A detailed glossary provides clear definitions of key statistical terms and additional resources including datasets and software tutorials are available to further support the learning experience Statistics and Data Analysis Essentials is ideal for undergraduate and graduate students as well as professionals and researchers looking to enhance their statistical expertise for practical applications **Enterprise Design, Operations, and Computing. EDOC 2024 Workshops** Monika Kaczmarek-Heß, Kristina Rosenthal, Marek Suchánek, Miguel Mira Da Silva, Henderik A. Proper, Marianne Schnellmann, 2025-02-08 This volume constitutes revised selected papers of two workshops the Doctoral Consortium the Joint CBI EDOC Forum and and other Joint CBI EDOC event which were held in conjunction with the 28th International Conference on Enterprise Design Operations and Computing EDOC 2024 in Vienna Austria in September 10 13 2024 The presented revised full papers in this book were carefully reviewed and selected They stem from the following satellite events iRESEARCH 2nd International Workshop on Empirical Methodologies for Research in Enterprise Architecture and Service oriented Computing MIDas4CS 2nd Workshop on the Modelling and Implementation of Digital Twins for Complex Systems Joint CBI EDOC Forum Joint CBI EDOC Case Reports Track Joint CBI EDOC Tools Demos

Track EDOC Doctoral Consortium CBI Mini Dagstuhl Seminars Big Data Science and Analytics for Smart Sustainable Urbanism Simon Elias Bibri, 2019-05-30 We are living at the dawn of what has been termed the fourth paradigm of science a scientific revolution that is marked by both the emergence of big data science and analytics and by the increasing adoption of the underlying technologies in scientific and scholarly research practices Everything about science development or knowledge production is fundamentally changing thanks to the ever increasing deluge of data This is the primary fuel of the new age which powerful computational processes or analytics algorithms are using to generate valuable knowledge for enhanced decision making and deep insights pertaining to a wide variety of practical uses and applications This book addresses the complex interplay of the scientific technological and social dimensions of the city and what it entails in terms of the systemic implications for smart sustainable urbanism In concrete terms it explores the interdisciplinary and transdisciplinary field of smart sustainable urbanism and the unprecedented paradigmatic shifts and practical advances it is undergoing in light of big data science and analytics This new era of science and technology embodies an unprecedentedly transformative and constitutive power manifested not only in the form of revolutionizing science and transforming knowledge but also in advancing social practices producing new discourses catalyzing major shifts and fostering societal transitions Of particular relevance it is instigating a massive change in the way both smart cities and sustainable cities are studied and understood and in how they are planned designed operated managed and governed in the face of urbanization This relates to what has been dubbed data driven smart sustainable urbanism an emerging approach based on a computational understanding of city systems and processes that reduces urban life to logical and algorithmic rules and procedures while also harnessing urban big data to provide a more holistic and integrated view or synoptic intelligence of the city This is increasingly being directed towards improving advancing and maintaining the contribution of both sustainable cities and smart cities to the goals of sustainable development This timely and multifaceted book is aimed at a broad readership As such it will appeal to urban scientists data scientists urbanists planners engineers designers policymakers philosophers of science and futurists as well as all readers interested in an overview of the pivotal role of big data science and analytics in advancing every academic discipline and social practice concerned with data intensive science and its application particularly in relation to sustainability *Data-Driven Systems and Intelligent Applications* Mangesh M. Ghonge, N. Krishna Chaitanya, Pradeep N, Harish Garg, Alessandro Bruno, 2024-10-09 This book comprehensively discusses basic data driven intelligent systems the methods for processing the data and cloud computing with artificial intelligence It presents fundamental and advanced techniques used for handling large user data and for the data stored in the cloud It further covers data driven decision making for smart logistics and manufacturing systems network security and privacy issues in cloud computing This book Discusses intelligent systems and cloud computing with the help of artificial intelligence and machine learning Showcases the importance of machine learning and deep learning in data driven and cloud based applications to

improve their capabilities and intelligence Presents the latest developments in data driven and cloud applications with respect to their design and architecture Covers artificial intelligence methods along with their experimental result analysis through data processing tools Presents the advent of machine learning deep learning and reinforcement technique for cloud computing to provide cost effective and efficient services The text will be useful for senior undergraduate graduate students and academic researchers in diverse fields including electrical engineering electronics and communications engineering computer engineering manufacturing engineering and production engineering Theories, Methods, Practices, and Fields of Digital Social Research Gabriella Punziano, Felice Addeo, Angela Delli Paoli, 2024-07-08 The digital in the form of technologies scenarios objects processes and relational and interactional structures is increasingly becoming central to understanding culture society human experience and the social world It permeates our society's practices symbols and shared meanings and it makes old distinctions such as the one between online and offline real and virtual and material and immaterial obsolete It also introduces digitally native objects of research such as cyber bullying and digital identities which have a direct impact on mainstream sociological problems Applied Data Science in Tourism Roman Egger, 2022-01-31 Access to large data sets has led to a paradigm shift in the tourism research landscape Big data is enabling a new form of knowledge gain while at the same time shaking the epistemological foundations and requiring new methods and analysis approaches It allows for interdisciplinary cooperation between computer sciences and social and economic sciences and complements the traditional research approaches This book provides a broad basis for the practical application of data science approaches such as machine learning text mining social network analysis and many more which are essential for interdisciplinary tourism research Each method is presented in principle viewed analytically and its advantages and disadvantages are weighed up and typical fields of application are presented The correct methodical application is presented with a how to approach together with code examples allowing a wider reader base including researchers practitioners and students entering the field The book is a very well structured introduction to data science not only in tourism and its methodological foundations accompanied by well chosen practical cases It underlines an important insight data are only representations of reality you need methodological skills and domain background to derive knowledge from them Hannes Werthner Vienna University of Technology Roman Egger has accomplished a difficult but necessary task make clear how data science can practically support and foster travel and tourism research and applications The book offers a well taught collection of chapters giving a comprehensive and deep account of AI and data science for tourism Francesco Ricci Free University of Bozen Bolzano This well structured and easy to read book provides a comprehensive overview of data science in tourism It contributes largely to the methodological repository beyond traditional methods Rob Law University of Macau

Integrated Information and Computing Systems for Natural, Spatial, and Social Sciences Rückemann, Claus-Peter, 2012-10-31 The 21st century has seen a number of advancements in technology including the use of high

performance computing Computing resources are being used by the science and economy fields for data processing simulation and modeling These innovations aid in the support of production logistics and mobility processes Integrated Information and Computing Systems for Natural Spatial and Social Sciences covers a carefully selected spectrum of the most up to date issues revealing the benefits dynamism potential and challenges of information and computing system application scenarios and components from a wide spectrum of prominent disciplines This comprehensive collection offers important guidance on the development stage of the universal solution to information and computing systems for researchers as well as industry decision makers and developers

The Big Data-Driven Digital Economy: Artificial and Computational Intelligence
Abdalmuttaleb M. A. Musleh Al-Sartawi, 2021-05-28 This book shows digital economy has become one of the most sought out solutions to sustainable development and economic growth of nations This book discusses the implications of both artificial intelligence and computational intelligence in the digital economy providing a holistic view on AI education economics finance sustainability ethics governance cybersecurity blockchain and knowledge management Unlike other books this book brings together two important areas intelligence systems and big data in the digital economy with special attention given to the opportunities challenges for education business growth and economic progression of nations The chapters hereby focus on how societies can take advantage and manage data as well as the limitations they face due to the complexity of resources in the form of digital data and the intelligence which will support economists financial managers engineers ICT specialists digital managers data managers policymakers regulators researchers academics students economic development strategies and the efforts made by the UN towards achieving their sustainability goals

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