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Big Data Analysis: New Algorithms for a New Society

Big Data Analysis Algorithms Society

SJ Ball



Big Data Analysis Algorithms Society:

Big Data Analysis: New Algorithms for a New Society Nathalie Japkowicz, Jerzy Stefanowski, 2015-12-16 This edited volume is devoted to Big Data Analysis from a Machine Learning standpoint as presented by some of the most eminent researchers in this area It demonstrates that Big Data Analysis opens up new research problems which were either never considered before or were only considered within a limited range In addition to providing methodological discussions on the principles of mining Big Data and the difference between traditional statistical data analysis and newer computing frameworks this book presents recently developed algorithms affecting such areas as business financial forecasting human mobility the Internet of Things information networks bioinformatics medical systems and life science It explores through a number of specific examples how the study of Big Data Analysis has evolved and how it has started and will most likely continue to affect society While the benefits brought upon by Big Data Analysis are underlined the book also discusses some of the warnings that have been issued concerning the potential dangers of Big Data Analysis along with its pitfalls and challenges

The Algorithmic Society Marc Schuilenburg, Rik Peeters, 2020-12-29 We live in an algorithmic society Algorithms have become the main mediator through which power is enacted in our society This book brings together three academic fields Public Administration Criminal Justice and Urban Governance into a single conceptual framework and offers a broad cultural political analysis addressing critical and ethical issues of algorithms Governments are increasingly turning towards algorithms to predict criminality deliver public services allocate resources and calculate recidivism rates Mind boggling amounts of data regarding our daily actions are analysed to make decisions that manage control and nudge our behaviour in everyday life The contributions in this book offer a broad analysis of the mechanisms and social implications of algorithmic governance Reporting from the cutting edge of scientific research the result is illuminating and useful for understanding the relations between algorithms and power Topics covered include Algorithmic governmentality Transparency and accountability Fairness in criminal justice and predictive policing Principles of good digital administration Artificial Intelligence AI in the smart city This book is essential reading for students and scholars of Sociology Criminology Public Administration Political Sciences and Cultural Theory interested in the integration of algorithms into the governance of society

Demystifying Big Data Analytics for Industries and Smart Societies Keshav Kaushik, Mamta Dahiya, Ashutosh Dhar Dwivedi, 2023-10-02 This book aims to provide readers with a comprehensive guide to the fundamentals of big data analytics and its applications in various industries and smart societies What sets this book apart is its in depth coverage of different aspects of big data analytics including machine learning algorithms spatial data analytics and IoT based smart systems for precision agriculture The book also delves into the use of big data analytics in healthcare energy management and agricultural development among others The authors have used clear and concise language along with relevant examples and case studies to help readers understand the complex concepts involved in big data analytics Key

Features Comprehensive coverage of the fundamentals of big data analytics In depth discussion of different aspects of big data analytics including machine learning algorithms spatial data analytics and IoT based smart systems Practical examples and case studies to help readers understand complex concepts Coverage of the use of big data analytics in various industries including healthcare energy management and agriculture Discussion of challenges and legal frameworks involved in big data analytics Clear and concise language that is easy to understand This book is a valuable resource for business owners data analysts students and anyone interested in the field of big data analytics It provides readers with the tools they need to leverage the power of big data and make informed decisions that can help their organizations succeed Whether you are new to the field or an experienced practitioner Demystifying Big Data Analytics for Industries and Smart Societies is must read

Big Data Analytics for Cyber-Physical System in Smart City Mohammed Atiquzzaman, Neil Yen, Zheng Xu, 2020-12-17 This book gathers a selection of peer reviewed papers presented at the second Big Data Analytics for Cyber Physical System in Smart City BDCPS 2020 conference held in Shanghai China on 28 29 December 2020 The contributions prepared by an international team of scientists and engineers cover the latest advances made in the field of machine learning and big data analytics methods and approaches for the data driven co design of communication computing and control for smart cities Given its scope it offers a valuable resource for all researchers and professionals interested in big data smart cities and cyber physical systems Big Data Rajkumar Buyya, Rodrigo N. Calheiros, Amir Vahid Dastjerdi, 2016-06-07 Big Data Principles and Paradigms captures the state of the art research on the architectural aspects technologies and applications of Big Data The book identifies potential future directions and technologies that facilitate insight into numerous scientific business and consumer applications To help realize Big Data s full potential the book addresses numerous challenges offering the conceptual and technological solutions for tackling them These challenges include life cycle data management large scale storage flexible processing infrastructure data modeling scalable machine learning data analysis algorithms sampling techniques and privacy and ethical issues Covers computational platforms supporting Big Data applications Addresses key principles underlying Big Data computing Examines key developments supporting next generation Big Data platforms Explores the challenges in Big Data computing and ways to overcome them Contains expert contributors from both academia and industry **Handbook of Big Data Analytics** Wolfgang Karl Härdle, Henry Horng-Shing Lu, Xiaotong Shen, 2018-07-20 Addressing a broad range of big data analytics in cross disciplinary applications this essential handbook focuses on the statistical prospects offered by recent developments in this field To do so it covers statistical methods for high dimensional problems algorithmic designs computation tools analysis flows and the software hardware co designs that are needed to support insightful discoveries from big data The book is primarily intended for statisticians computer experts engineers and application developers interested in using big data analytics with statistics Readers should have a solid background in statistics and computer science **Tackling Society's Grand Challenges with**

Design Science Jeffrey Parsons, Tuure Tuunanen, John Venable, Brian Donnellan, Markus Helfert, Jim Kenneally, 2016-05-10

This book constitutes the thoroughly refereed proceedings of the 11th International Conference on Design Science Research in Information Systems and Technology DESRIST 2016 held in St John Newfoundland Canada in May 2016 The 11 full papers 2 short papers and 9 short papers describing prototypes and products were carefully reviewed and selected from 54 submissions The papers are organized around the following topics methodological aspects of design science applications of design science research to real world design problems for example in social media health care systems embedded technologies climate security

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

IoT and Big Data Technologies for Health Care Shuihua Wang, 2023-05-23 This book constitutes the refereed proceedings of the Third EAI International Conference on IoT and Big Data Technologies for Health Care IotCARE 2022 which took place virtually during December 12 13 2022 The 23 papers included in this volume were carefully reviewed and selected from 67 submissions The papers are present newest results in big data technologies for e health and for e care The papers are organized in the following topical sections big data technologies for e health and big data technologies for e care

Algorithmic Regulation Karen Yeung, Martin Lodge, 2019 As the power and sophistication of big data and predictive analytics has continued to expand so too has policy and public concern about the use of algorithms in contemporary life This is hardly surprising given our increasing reliance on algorithms in daily life touching policy sectors from healthcare transport finance consumer retail manufacturing education and employment through to public service provision and the operation of the criminal justice system This has prompted concerns about the need and importance of holding algorithmic power to account yet it is far from clear that existing legal and other oversight mechanisms are up to the task This collection of essays edited by two leading regulatory governance scholars offers a critical exploration of algorithmic regulation understood both as a means for coordinating and regulating social action and decision making as well as the need for institutional mechanisms through which the power of algorithms and algorithmic systems might themselves be regulated It offers a unique perspective that is likely to become a significant reference point for the ever growing debates about the power of algorithms in daily life in the worlds of research policy and practice The range of contributors are drawn from a broad range of disciplinary perspectives including law public administration applied philosophy data science and artificial intelligence

Taken together they highlight the rise of algorithmic power the potential benefits and risks associated with this power the way in which Sheila Jasanoff's long standing claim that technology is politics has been thrown into sharp relief by the speed and scale at which algorithmic systems are proliferating and the urgent need for wider public debate and engagement of their underlying values and value trade offs the way in which they affect individual and collective decision making and action and effective and legitimate mechanisms by and through which algorithmic power is held to account

Enjoying the Beat of Expression: An Psychological Symphony within **Big Data Analysis Algorithms Society**

In some sort of taken by monitors and the ceaseless chatter of quick interaction, the melodic beauty and mental symphony developed by the published term frequently diminish into the back ground, eclipsed by the constant sound and interruptions that permeate our lives. Nevertheless, set within the pages of **Big Data Analysis Algorithms Society** an enchanting literary value full of fresh thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this interesting masterpiece conducts viewers on a psychological trip, well unraveling the hidden songs and profound influence resonating within each cautiously crafted phrase. Within the depths of the poignant evaluation, we shall explore the book is main harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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