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Prediction and Inference from Social Networks and Social Media Jalal Kawash, Nitin Agarwal, Tansel Özyer, 2017-03-16
This book addresses the challenges of social network and social media analysis in terms of prediction and inference. The chapters collected here tackle these issues by proposing new analysis methods and by examining mining methods for the vast amount of social content produced. Social Networks (SNs) have become an integral part of our lives; they are used for leisure, business, government, medical, educational purposes and have attracted billions of users. The challenges that stem from this wide adoption of SNs are vast. These include generating realistic social network topologies, awareness of user activities, topic and trend generation, estimation of user attributes from their social content and behavior detection. This text has applications to widely used platforms such as Twitter and Facebook and appeals to students, researchers and professionals in the field.

The Mathematical Resilience Book Sue Johnston-Wilder, Clare Lee, 2024-06-13
This book is about mathematical resilience: what it is, why it is important, how learners can develop it and how teachers can teach in ways that help learners become mathematically resilient. Teaching for mathematical resilience helps mitigate mathematics anxiety, which is often hidden from view as poor behaviour, avoidance and underachievement, and can have long-term implications, especially for people's employment opportunities and career progression. Written by a team of expert contributors that specialise in teaching every age of learner from primary school through to adult, the book shows that everyone can progress in mathematics if they have Mathematical Resilience and sets out practical strategies to support learners in developing this important attribute. Chapters cover: How to measure mathematics anxiety and resilience; Tools for building mathematical resilience; Building a resilient mathematical learning environment; The power of coaching; Working with groups, individuals and support staff; Supporting parents and carers. The world faces huge challenges that involve mathematical thinking, including climate change and economic injustice. This valuable text shows teachers how they can help learners to engage positively with mathematical learning and reach their full potential.

ICASI 2019 Rahmat Hidayat, Mesran, Tengku Mohd Diansyah, Supriyanto, Dodi Siregar, 2019-11-26
As an annual event, THE 2ND INTERNATIONAL CONFERENCE ON ADVANCE SCIENTIFIC INNOVATION 2019 continued the agenda to bring together researcher, academics, experts and professionals in examining about Scientific Innovation in technology, education, management, accounting and many aspect area. In 2019, this event held in 18 July 2019 at Politeknik Kutaraja Banda Aceh, Indonesia. This ICASI Proceeding 2019 are published along with article from ICASI 2018 and each contributed paper was refereed before being accepted for publication. The double-blind peer-reviewed was used in the paper selection.

Algorithmic Probability and Friends. Bayesian Prediction and Artificial Intelligence David L. Dowe, 2013-10-22
Algorithmic probability and friends. Proceedings of the Ray Solomonoff 85th memorial conference is a collection of original work and surveys. The Solomonoff 85th memorial conference was held at Monash University's Clayton campus in Melbourne, Australia as a tribute to pioneer Ray Solomonoff 1926-2009, honouring his various pioneering works.

most particularly his revolutionary insight in the early 1960s that the universality of Universal Turing Machines UTMs could be used for universal Bayesian prediction and artificial intelligence machine learning This work continues to increasingly influence and underpin statistics econometrics machine learning data mining inductive inference search algorithms data compression theories of general intelligence and philosophy of science and applications of these areas Ray not only envisioned this as the path to genuine artificial intelligence but also still in the 1960s anticipated stages of progress in machine intelligence which would ultimately lead to machines surpassing human intelligence Ray warned of the need to anticipate and discuss the potential consequences and dangers sooner rather than later Possibly foremostly Ray Solomonoff was a fine happy frugal and adventurous human being of gentle resolve who managed to fund himself while electing to conduct so much of his paradigm changing research outside of the university system The volume contains 35 papers pertaining to the abovementioned topics in tribute to Ray Solomonoff and his legacy Cost of Capital, + Website Shannon P. Pratt, Roger J. Grabowski, 2014-04-21 A one stop shop for background and current thinking on the development and uses of rates of return on capital Completely revised for this highly anticipated fifth edition Cost of Capital contains expanded materials on estimating the basic building blocks of the cost of equity capital the risk free rate and equity risk premium There is also discussion of the volatility created by the financial crisis in 2008 the subsequent recession and uncertain recovery and how those events have fundamentally changed how we need to interpret the inputs to the models we use to develop these estimates The book includes new case studies providing comprehensive discussion of cost of capital estimates for valuing a business and damages calculations for small and medium sized businesses cross referenced to the chapters covering the theory and data Addresses equity risk premium and the risk free rate including the impact of Federal Reserve actions Explores how to use Morningstar's Ibbotson and Duff Phelps Risk Premium Report data Discusses the global cost of capital estimation including a new size study of European countries Cost of Capital Fifth Edition puts an emphasis on practical application To that end this updated edition provides readers with exclusive access to a companion website filled with supplementary materials allowing you to continue to learn in a hands on fashion long after closing the book **Intelligent Systems** Siba K. Udgata, Srinivas Sethi, Satish N. Srirama, 2021-04-19 This book features best selected research papers presented at the International Conference on Machine Learning Internet of Things and Big Data ICMIB 2020 held at Indira Gandhi Institute of Technology Sarang India during September 2020 It comprises high quality research work by academicians and industrial experts in the field of machine learning mobile computing natural language processing fuzzy computing green computing human computer interaction information retrieval intelligent control data mining and knowledge discovery evolutionary computing IoT and applications in smart environments smart health smart city wireless networks big data cloud computing business intelligence internet security pattern recognition predictive analytics applications in healthcare sensor networks and social sensing and statistical analysis of search techniques **Stochastic Processes,**

Statistical Methods, and Engineering Mathematics Anatoliy Malyarenko, Ying Ni, Milica Rančić, Sergei Silvestrov, 2023-01-26 The goal of the 2019 conference on Stochastic Processes and Algebraic Structures held in SPAS2019 Västerås Sweden from September 30th to October 2nd 2019 was to showcase the frontiers of research in several important areas of mathematics mathematical statistics and its applications The conference was organized around the following topics

- 1 Stochastic processes and modern statistical methods
- 2 Engineering mathematics
- 3 Algebraic structures and their applications

The conference brought together a select group of scientists researchers and practitioners from the industry who are actively contributing to the theory and applications of stochastic and algebraic structures methods and models The conference provided early stage researchers with the opportunity to learn from leaders in the field to present their research as well as to establish valuable research contacts in order to initiate collaborations in Sweden and abroad New methods for pricing sophisticated financial derivatives limit theorems for stochastic processes advanced methods for statistical analysis of financial data and modern computational methods in various areas of applied science can be found in this book The principal reason for the growing interest in these questions comes from the fact that we are living in an extremely rapidly changing and challenging environment This requires the quick introduction of new methods coming from different areas of applied science Advanced concepts in the book are illustrated in simple form with the help of tables and figures Most of the papers are self contained and thus ideally suitable for self study Solutions to sophisticated problems located at the intersection of various theoretical and applied areas of the natural sciences are presented in these proceedings

Prediction Methods for Blood Glucose Concentration Harald Kirchsteiger, John Bagterp Jørgensen, Eric Renard, Luigi del Re, 2015-11-24 This book tackles the problem of overshoot and undershoot in blood glucose levels caused by delay in the effects of carbohydrate consumption and insulin administration The ideas presented here will be very important in maintaining the welfare of insulin dependent diabetics and avoiding the damaging effects of unpredicted swings in blood glucose accurate prediction enables the implementation of counter measures The glucose prediction algorithms described are also a key and critical ingredient of automated insulin delivery systems the so called artificial pancreas The authors address the topic of blood glucose prediction from medical scientific and technological points of view Simulation studies are utilized for complementary analysis but the primary focus of this book is on real applications using clinical data from diabetic subjects The text details the current state of the art by surveying prediction algorithms and then moves beyond it with the most recent advances in data based modeling of glucose metabolism The topic of performance evaluation is discussed and the relationship of clinical and technological needs and goals examined with regard to their implications for medical devices employing prediction algorithms Practical and theoretical questions associated with such devices and their solutions are highlighted This book shows researchers interested in biomedical device technology and control researchers working with predictive algorithms how incorporation of predictive algorithms into the next generation of portable glucose measurement can make treatment of

diabetes safer and more efficient Handbook Of Financial Econometrics, Mathematics, Statistics, And Machine Learning (In 4 Volumes) Cheng Few Lee, John C Lee, 2020-07-30 This four volume handbook covers important concepts and tools used in the fields of financial econometrics mathematics statistics and machine learning Econometric methods have been applied in asset pricing corporate finance international finance options and futures risk management and in stress testing for financial institutions This handbook discusses a variety of econometric methods including single equation multiple regression simultaneous equation regression and panel data analysis among others It also covers statistical distributions such as the binomial and log normal distributions in light of their applications to portfolio theory and asset management in addition to their use in research regarding options and futures contracts In both theory and methodology we need to rely upon mathematics which includes linear algebra geometry differential equations Stochastic differential equation Ito calculus optimization constrained optimization and others These forms of mathematics have been used to derive capital market line security market line capital asset pricing model option pricing model portfolio analysis and others In recent times an increased importance has been given to computer technology in financial research Different computer languages and programming techniques are important tools for empirical research in finance Hence simulation machine learning big data and financial payments are explored in this handbook Led by Distinguished Professor Cheng Few Lee from Rutgers University this multi volume work integrates theoretical methodological and practical issues based on his years of academic and industry experience

Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2014-05-23 In this important book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help diagnose a child's level of mathematical understanding and provide guidance for teaching By focusing on the inherent delight and curiosity behind young children's mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying levels of knowledge exhibited by individual students which in turn allows them to better meet the learning needs of all children Using straightforward no nonsense language this book summarizes the current research about how children learn mathematics and how to build on what children already know to realize more effective teaching This second edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become quintessential professionals Updates to the new edition include Explicit connections between Learning Trajectories and the new Common Core State Standards New coverage of patterns and patterning Incorporation of hundreds of recent research studies

Dependable IoT for Human and Industry Vyacheslav Kharchenko, Ah Lian Kor, Andrzej Rucinski, 2022-09-01 There are numerous publications which introduce and discuss the Internet of Things IoT In the midst of these this work has several unique characteristics which should change the reader's perspective and in particular provide a more profound understanding of the impact of the IoT on society Dependable IoT for Human and Industry covers the main aspects of

Internet of Things and IoT based systems such as global issues of applications modeling development and implementation of dependable IoT for different human and industry domains Technical topics discussed in the book include Introduction in Internet of vital and trust Things Modelling and assessment techniques for dependable and secure IoT systems Architecting and development of IoT systems Implementation of IoT for smart cities and drone fleets business and blockchain transport and industry Training courses and education experience on Internet and Web of ThingThe book contains chapters which have their roots in the International Conference IDAACS 2017 and Workshop on Cyber Physical Systems and IoT Dependability CyberIoT DESSERT 2017 Geomechanics and Geodynamics of Rock Masses Vladimir Litvinenko,2018-05-15

Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK **Proceedings of SAI Intelligent Systems Conference (IntelliSys) 2016** Yaxin Bi,Supriya Kapoor,Rahul Bhatia,2017-08-19

These proceedings of the SAI Intelligent Systems Conference 2016 IntelliSys 2016 offer a remarkable collection of chapters on a wide range of topics in intelligent systems artificial intelligence and their applications to the real world Authors hailing from 56 countries on 5 continents submitted 404 papers to the conference attesting to the global importance of the conference s themes After being reviewed 222 papers were accepted for presentation and 168 were ultimately selected for these proceedings Each has been reviewed on the basis of its originality novelty and rigorousness The papers not only present state of the art methods and valuable experience from researchers in the related research areas they also outline the field s future development Predicting Flow-Induced Acoustics at Near-Stall Conditions in an Automotive Turbocharger Compressor Roberto Navarro García,2018-01-10 This thesis offers new insights into the fluid flow behavior of automotive centrifugal compressors operating under near stall conditions Firstly it discusses the validation of three dimensional computational fluid dynamics CFD unsteady simulations against acoustic experimental measurements using an original procedure based on plane wave pressure decomposition It then examines the

configuration of the CFD cases highlighting the key parameters needed for a successful calculation Moreover it describes both the compressor mean and unsteady flow field from best efficiency to near surge operating points Lastly it provides readers with explanations of the various phenomena that arise when the mass flow rate is reduced and the compressor is driven to poor and noisy performance Written for students researchers and professionals who want to improve their understanding of the complex fluid flow behavior in centrifugal compressors the thesis offers valuable practical insights into reducing the acoustic emissions of turbochargers

Empowering Science and Mathematics for Global Competitiveness Yuli Rahmawati, Peter Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education

Artificial Intelligence Jude Hemanth, Thushari Silva, Asoka Karunananda, 2019-07-04 This book constitutes the refereed proceedings of the Second International Conference SLAAI ICAI 2018 held in Moratuwa Sri Lanka in December 2018 The 32 revised full papers presented were carefully reviewed and selected from numerous submissions The papers are organized in the following topical sections intelligence systems neural networks game theory ontology engineering natural language processing agent based system signal and image processing

Geomechanics and Geodynamics of Rock Masses - Volume 2 Vladimir Litvinenko, 2018-05-20 This book is Volume 2 of the EUROCK 2018 proceedings Geomechanics and Geodynamics of Rock Masses contains contributions presented at EUROCK 2018 the 2018 International Symposium of the International Society for Rock Mechanics ISRM 2018 Saint Petersburg Russia 22-26 May 2018 Dedicated to recent advances and achievements in the fields of geomechanics and geotechnology the main topics of the book include Physical and mechanical properties of fractured rock laboratory testing and rock properties field measurements and site investigations Geophysics in rock mechanics Rock mass strength and failure Nonlinear problems in rock mechanics Effect of joint water on the behavior of rock foundation Numerical modeling and back analysis Mineral resources development methods and rock mechanics problems Rock mechanics and underground construction in mining hydropower industry and civil engineering Rock mechanics in petroleum engineering Geodynamics and monitoring of rock mass behavior Risks and hazards Geomechanics of technogenic deposits Geomechanics and Geodynamics of Rock Masses will be of interest to researchers and professionals involved in the various branches of rock

mechanics and rock engineering EUROCK 2018 organized by the Saint Petersburg Mining University is a continuation of the successful series of ISRM symposia in Europe which began in 1992 in Chester UK *Progress in Intelligent Decision Science* Tofigh Allahviranloo, Soheil Salahshour, Nafiz Arica, 2021-01-29 This book contains the topics of artificial intelligence and deep learning that do have much application in real life problems The concept of uncertainty has long been used in applied science especially decision making and a logical decision must be made in the field of uncertainty or in the real life environment that is formed and combined with vague concepts and data The chapters of this book are connected to the new concepts and aspects of decision making with uncertainty Besides other chapters are involved with the concept of data mining and decision making under uncertain computations **1D and Multi-D Modeling Techniques for IC Engine**

Simulation Angelo Onorati, Gianluca Montenegro, 2020-04-06 1D and Multi D Modeling Techniques for IC Engine Simulation provides a description of the most significant and recent achievements in the field of 1D engine simulation models and coupled 1D 3D modeling techniques including 0D combustion models quasi 3D methods and some 3D model applications

Handbook of Neural Computation Pijush Samui, Sanjiban Sekhar Roy, Valentina Emilia Balas, 2017-07-18 Handbook of Neural Computation explores neural computation applications ranging from conventional fields of mechanical and civil engineering to electronics electrical engineering and computer science This book covers the numerous applications of artificial and deep neural networks and their uses in learning machines including image and speech recognition natural language processing and risk analysis Edited by renowned authorities in this field this work is comprised of articles from reputable industry and academic scholars and experts from around the world Each contributor presents a specific research issue with its recent and future trends As the demand rises in the engineering and medical industries for neural networks and other machine learning methods to solve different types of operations such as data prediction classification of images analysis of big data and intelligent decision making this book provides readers with the latest cutting edge research in one comprehensive text Features high quality research articles on multivariate adaptive regression splines the minimax probability machine and more Discusses machine learning techniques including classification clustering regression web mining information retrieval and natural language processing Covers supervised unsupervised reinforced ensemble and nature inspired learning methods

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