

Data Streams

Models and Algorithms

Edited by
Charu C. Aggarwal



Springer

Data Streams Models And Algorithms Advances In Database Systems

Suman Saha, Shailendra Shukla



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Data Streams Charu C. Aggarwal, 2007-04-03 This book primarily discusses issues related to the mining aspects of data streams and it is unique in its primary focus on the subject This volume covers mining aspects of data streams comprehensively each contributed chapter contains a survey on the topic the key ideas in the field for that particular topic and future research directions The book is intended for a professional audience composed of researchers and practitioners in industry This book is also appropriate for advanced level students in computer science

Computational Science and Its Applications - ICCSA 2019 Sanjay Misra, Osvaldo Gervasi, Beniamino Murgante, Elena Stankova, Vladimir Korkhov, Carmelo Torre, Ana Maria A.C. Rocha, David Taniar, Bernady O. Apduhan, Eufemia Tarantino, 2019-06-28 The six volumes LNCS 11619 11624 constitute the refereed proceedings of the 19th International Conference on Computational Science and Its

Applications ICCSA 2019 held in Saint Petersburg Russia in July 2019 The 64 full papers 10 short papers and 259 workshop papers presented were carefully reviewed and selected from numerous submissions The 64 full papers are organized in the following five general tracks computational methods algorithms and scientific applications high performance computing and networks geometric modeling graphics and visualization advanced and emerging applications and information systems and technologies The 259 workshop papers were presented at 33 workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as software engineering security artificial intelligence and blockchain technologies

Advances in Artificial Intelligence Oscar Luaces, José A. Gámez, Edurne Barrenechea, Alicia Troncoso, Mikel Galar, Héctor Quintián, Emilio Corchado, 2016-09-07 This book constitutes the refereed proceedings of the 16th Conference of the Spanish Association for Artificial Intelligence CAEPIA 2016 held in Salamanca Spain in September 2016 The 47 revised full papers presented were carefully selected from 166 submissions Apart from the presentation of technical full papers the scientific program of CAEPIA 2016 included an App contest a Doctoral Consortium and as a follow up to the success achieved in previously CAEPIA editions a special session on outstanding recent papers Key Works already published in renowned journals or forums

Advanced Data Structures

Suman Saha, Shailendra Shukla, 2019-06-28 Advanced data structures is a core course in Computer Science which most graduate program in Computer Science Computer Science and Engineering and other allied engineering disciplines offer during the first year or first semester of the curriculum The objective of this course is to enable students to have the much needed foundation for advanced technical skill leading to better problem solving in their respective disciplines Although the course is running in almost all the technical universities for decades major changes in the syllabus have been observed due to the recent paradigm shift of computation which is more focused on huge data and internet based technologies Majority of the institute has been redefined their course content of advanced data structure to fit the current need and course material heavily relies on research papers because of nonavailability of the redefined text book advanced data structure To the best of

our knowledge well known textbook on advanced data structure provides only partial coverage of the syllabus The book offers comprehensive coverage of the most essential topics including Part I details advancements on basic data structures viz cuckoo hashing skip list tango tree and Fibonacci heaps and index files Part II details data structures of different evolving data domains like special data structures temporal data structures external memory data structures distributed and streaming data structures Part III elucidates the applications of these data structures on different areas of computer science viz network www DBMS cryptography graphics to name a few The concepts and techniques behind each data structure and their applications have been explained Every chapter includes a variety of Illustrative Problems pertaining to the data structure s detailed a summary of the technical content of the chapter and a list of Review Questions to reinforce the comprehension of the concepts The book could be used both as an introductory or an advanced level textbook for the advanced undergraduate graduate and research programmes which offer advanced data structures as a core or an elective course While the book is primarily meant to serve as a course material for use in the classroom it could be used as a starting point for the beginner researcher of a specific domain

Machine Learning for Data Streams Albert Bifet,Ricard Gavaldà,Geoffrey Holmes,Bernhard Pfahringer,2018-03-16 A hands on approach to tasks and techniques in data stream mining and real time analytics with examples in MOA a popular freely available open source software framework Today many information sources including sensor networks financial markets social networks and healthcare monitoring are so called data streams arriving sequentially and at high speed Analysis must take place in real time with partial data and without the capacity to store the entire data set This book presents algorithms and techniques used in data stream mining and real time analytics Taking a hands on approach the book demonstrates the techniques using MOA Massive Online Analysis a popular freely available open source software framework allowing readers to try out the techniques after reading the explanations The book first offers a brief introduction to the topic covering big data mining basic methodologies for mining data streams and a simple example of MOA More detailed discussions follow with chapters on sketching techniques change classification ensemble methods regression clustering and frequent pattern mining Most of these chapters include exercises an MOA based lab session or both Finally the book discusses the MOA software covering the MOA graphical user interface the command line use of its API and the development of new methods within MOA The book will be an essential reference for readers who want to use data stream mining as a tool researchers in innovation or data stream mining and programmers who want to create new algorithms for MOA

Database and Expert Systems Applications Sven Hartmann,Hui Ma,2016-08-05 This two volume set LNCS 9827 and LNCS 9828 constitutes the refereed proceedings of the 27th International Conference on Database and Expert Systems Applications DEXA 2016 held in Porto Portugal September 2016 The 39 revised full papers presented together with 29 short papers were carefully reviewed and selected from 137 submissions The papers discuss a range of topics including Temporal Spatial and High Dimensional Databases Data Mining Authenticity Privacy Security and

Trust Data Clustering Distributed and Big Data Processing Decision Support Systems and Learning Data Streams Data Integration and Interoperability Semantic Web and Data Semantics Social Networks and Network Analysis Linked Data Data Analysis NoSQL NewSQL Multimedia Data Personal Information Management Semantic Web and Ontologies Database and Information System Architectures Query Answering and Optimization Information Retrieval and Keyword Search Data Modelling and Uncertainty Data Mining and Big Data Ying Tan,Yuhui Shi,2016-07-04 The LNCS volume LNCS 9714 constitutes the refereed proceedings of the International Conference on Data Mining and Big Data DMBD 2016 held in Bali Indonesia in June 2016 The 57 papers presented in this volume were carefully reviewed and selected from 115 submissions The theme of DMBD 2016 is Serving Life with Data Science Data mining refers to the activity of going through big data sets to look for relevant or pertinent information The papers are organized in 10 cohesive sections covering all major topics of the research and development of data mining and big data and one Workshop on Computational Aspects of Pattern Recognition and Computer Vision **Integrated Computing Technology** Estevam Rafael Hruschka,Junzo Watada,Maria Carmo Nicoletti,2011-06-24 This book constitutes the refereed proceedings of the First International Conference on Integrated Computing Technology INTECH 2011 held in Sao Carlos Brazil in May June 2011 The 14 revised full papers presented were carefully reviewed and selected from 103 submissions The conference fosters discussions in integrating models framework designs content networks and the knowledge through more robust and high quality research Information Systems Architecture and Technology: Proceedings of 37th International Conference on Information Systems Architecture and Technology - ISAT 2016 - Part I Leszek Borzemski,Adam Grzech,Jerzy Świątek,Zofia Wilimowska,2016-09-17 This four volume set of books constitutes the proceedings of the 2016 37th International Conference Information Systems Architecture and Technology ISAT or ISAT 2016 for short held on September 18 20 2016 in Karpacz Poland The conference was organized by the Department of Management Systems and the Department of Computer Science Wroc aw University of Science and Technology Poland The papers included in the proceedings have been subject to a thorough review process by highly qualified peer reviewers The accepted papers have been grouped into four parts Part I addressing topics including but not limited to systems analysis and modeling methods for managing complex planning environment and insights from Big Data research projects Part II discoursing about topics including but not limited to Web systems computer networks distributed computing and mulit agent systems and Internet of Things Part III discussing topics including but not limited to mobile and Service Oriented Architecture systems high performance computing cloud computing knowledge discovery data mining and knowledge based management Part IV dealing with topics including but not limited to finance logistics and market problems and artificial intelligence methods **Discovery Science** João Gama,Vitor Santos Costa,Alipio Jorge,Pavel Brazdil,2009-10-05 This book constitutes the refereed proceedings of the twelfth International Conference on Discovery Science DS 2009 held in Porto Portugal in October 2009 The 35 revised full papers presented were carefully selected from 92

papers The scope of the conference includes the development and analysis of methods for automatic scientific knowledge discovery machine learning intelligent data analysis theory of learning as well as their applications

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