

Data-Centric Systems and Applications

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Data Management in Pervasive Systems

 Springer

Data Management In Pervasive Systems Data Centric Systems And Applications

Gilles Barthe



Data Management In Pervasive Systems Data Centric Systems And Applications:

Data Management in Pervasive Systems Francesco Colace, Massimo De Santo, Vincenzo Moscato, Antonio Picariello, Fabio A. Schreiber, Letizia Tanca, 2015-10-17 This book contributes to illustrating the methodological and technological issues of data management in Pervasive Systems by using the DataBenc project as the running case study for a variety of research contributions sensor data management user originated data operation and reasoning multimedia data management data analytics and reasoning for event detection and decision making context modelling and control automatic data and service tailoring for personalization and recommendation The book is organized into the following main parts i multimedia information management ii sensor data streams and storage iii social networks as information sources iv context awareness and personalization The case study is used throughout the book as a reference example

Machine Vision and Augmented Intelligence—Theory and Applications Manish Kumar Bajpai, Koushendra Kumar Singh, George Giakos, 2021-11-10 This book comprises the proceedings of the International Conference on Machine Vision and Augmented Intelligence MAI 2021 held at IIIT Jabalpur in February 2021 The conference proceedings encapsulate the best deliberations held during the conference The diversity of participants in the event from academia industry and research reflects in the articles appearing in the volume The book theme encompasses all industrial and non industrial applications in which a combination of hardware and software provides operational guidance to devices in the execution of their functions based on the capture and processing of images This book covers a wide range of topics such as modeling of disease transformation epidemic forecast COVID 19 image processing and computer vision augmented intelligence soft computing deep learning image reconstruction artificial intelligence in healthcare brain computer interface cybersecurity and social network analysis natural language processing etc

Big Data and Decision-Making Anna Visvizi, Orlando Troisi, Mara Grimaldi, 2023-01-30 Big Data and Decision Making Applications and Uses in the Public and Private Sector breaks down the concept of big data to reveal how it has become integrated into the fabric of both public and private domains as well as how its value can ultimately be exploited

Transactions on Large-Scale Data- and Knowledge-Centered Systems XI Abdelkader Hameurlain, Josef Küng, Roland Wagner, Bernd Amann, Philippe Lamarre, 2013-11-20 This the 11th issue of Transactions on Large Scale Data and Knowledge Centered Systems contains five selected papers focusing on Advanced Data Stream Management and Processing of Continuous Queries The contributions cover different methods for avoiding unauthorized access to streaming data modeling complex real time behavior of stream processing applications comparing different event centric and data centric platforms for the development of applications in pervasive environments capturing localized repeated associative relationships from multiple time series and obtaining uniform and fresh sampling strategies over input data streams generated by large open systems containing malicious participants

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

Handbook of Research on Cyber Crime and Information Privacy
Cruz-Cunha, Maria Manuela, Mateus-Coelho, Nuno, 2020-08-21 In recent years industries have transitioned into the digital realm as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production This dependence has significantly increased the risk of cyber crime and breaches in data security Fortunately research in the area of cyber security and information protection is flourishing however it is the responsibility of industry professionals to keep pace with the current trends within this field The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space It presents novel solutions to securing and preserving digital information through practical examples and case studies While highlighting topics including virus detection surveillance technology and social networks this book is ideally designed for cybersecurity professionals researchers developers practitioners programmers computer scientists academicians security analysts educators and students seeking up to date research on advanced approaches and developments in cyber security and information protection

Data-Centric Business and Applications Aneta Poniszewska-Marańda, Natalia

Kryvinska, Stanisław Jarząbek, Lech Madeyski, 2019-12-14 This book explores various aspects of software creation and development as well as data and information processing It covers relevant topics such as business analysis business rules requirements engineering software development processes software defect prediction information management systems and knowledge management solutions Lastly the book presents lessons learned in information and data management processes and procedures

Advances in Data Management Zbigniew W Ras, Agnieszka Dardzinska, 2009-10-27 Data Management is the process of planning coordinating and controlling data resources More often applications need to store and search a large amount of data Managing Data has been continuously challenged by demands from various areas and applications and has evolved in parallel with advances in hardware and computing techniques This volume focuses on its recent advances and it is composed of five parts and a total of eighteen chapters The first part of the book contains five contributions in the area of information retrieval and Web intelligence a novel approach to solving index selection problem integrated retrieval from Web of documents and data bipolarity in database querying deriving data summarization through ontologies and granular computing for Web intelligence The second part of the book contains four contributions in knowledge discovery area Its third part contains three contributions in information integration and data security area The remaining two parts of the book contain six contributions in the area of intelligent agents and applications of data management in medical domain

Programming Languages and Systems Gilles Barthe, 2011-03-22 This book constitutes the refereed proceedings of the 20th European Symposium on Programming ESOP 2011 held in Saarbrücken Germany March 30 April 1 2011 as part of ETAPS 2011 the European Joint Conferences on Theory and Practice of Software The 24 revised full papers presented together with one full length invited talk were carefully reviewed and selected from 93 full paper submissions Papers were invited on all aspects of programming language research including programming paradigms and styles methods and tools to write and specify programs and languages methods and tools for reasoning about programs methods and tools for implementation and concurrency and distribution

Advances in Production Management Systems. Competitive Manufacturing for Innovative Products and Services Christos Emmanouilidis, Marco Taisch, Dimitris Kiritsis, 2013-08-13 The two volumes IFIP AICT 397 and 398 constitute the thoroughly refereed post conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems APMS 2012 held in Rhodes Greece in September 2012 The 182 revised full papers were carefully reviewed and selected for inclusion in the two volumes They are organized in 6 parts sustainability design manufacturing and production management human factors learning and innovation ICT and emerging technologies in production management product and asset lifecycle management and services supply chains and operations

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