Multimedia Semantics: Metadata, Analysis and Interaction

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Multimedia Semantics, EURECOM

Multimedia Semantics Metadata Analysis And Interaction

Zhe Xu

Multimedia Semantics Metadata Analysis And Interaction:

Multimedia Semantics Raphael Troncy,Benoit Huet,Simon Schenk,2011-07-18 In this book the authors present the latest research results in the multimedia and semantic web communities bridging the Semantic Gap This book explains collects and reports on the latest research results that aim at narrowing the so called multimedia Semantic Gap the large disparity between descriptions of multimedia content that can be computed automatically and the richness and subjectivity of semantics in user queries and human interpretations of audiovisual media Addressing the grand challenge posed by the Semantic Gap requires a multi disciplinary approach computer science computer vision and signal processing cognitive science web science etc and this is reflected in recent research in this area In addition the book targets an interdisciplinary community and in particular the Multimedia and the Semantic Web communities Finally the authors provide both the fundamental knowledge and the latest state of the art results from both communities with the goal of making the knowledge of one community available to the other Key Features Presents state of the art research results in multimedia semantics multimedia analysis metadata standards and multimedia knowledge representation semantic interaction with multimedia Contains real industrial problems exemplified by user case scenarios Offers an insight into various standardisation bodies including W3C IPTC and ISO MPEG Contains contributions from academic and industrial communities from Europe USA and Asia Includes an accompanying website containing user cases datasets and software mentioned in the book as well as links to the K Space NoE and the SMaRT society web sites http www multimediasemantics com This book will be a valuable reference for academic and industry researchers practitioners in multimedia computational intelligence and computer science fields Graduate students project leaders and consultants will also find this book of interest   Transactions on Computational Collective Intelligence XXI Ngoc Thanh Nguyen,Ryszard Kowalczyk,Paulo Rupino da Cunha,2016-03-04 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as the semantic Web social networks and multi agent systems TCCI strives to cover new methodological theoretical and practical aspects of CCI understood as the form of intelligence that emerges from the collaboration and competition of many individuals artificial and or natural The application of multiple computational intelligence technologies such as fuzzy systems evolutionary computation neural systems consensus theory etc aims to support human and other collective intelligence and to create new forms of CCI in natural and or artificial systems This twenty first issue contains 7 carefully selected and revised contributions   Semantic Computing Phillip Chen-yu Sheu,2017-08-23 As the first volume of World Scientific Encyclopedia with Semantic Computing and Robotic Intelligence this volume is designed to lay the foundation for the understanding of the Semantic Computing SC as a core concept to study Robotic Intelligence in the subsequent volumes This volume aims to provide a reference to the development of Semantic Computing in the terms of meaning context and intention It brings together a series of technical notes in average no longer

than 10 pages in length each focuses on one topic in Semantic Computing being review article or research paper to explain the fundamental concepts models or algorithms and possible applications of the technology concerned This volume will address three core areas in Semantic Computing **Computation for Humanity** Justyna Zander,Pieter Mosterman,2018-10-03 The exponential progress and accessibility of computing has vastly increased data flows and revolutionized the practice of science engineering and communication Computing plays a critical role in advancing research across almost every scientific discipline Computation for Humanity Information Technology to Advance Society is a guide for the creation of services products and tools that facilitate support and enhance progress of humanity toward more sustainable life This book Provides a deep understanding of the practical applications of computation to solve human machine problems Delivers insight into theoretical approaches in an accessible manner Provides a comprehensive overview of computational science and engineering applications in selected disciplines Crosses the boundaries between different domains and shows how they interrelate and complement one another Focuses on grand challenges and issues that matter for the future of humanity Shows different perspectives of computational thinking understanding and reasoning Provides a basis for scientific discoveries and enables adopting scientific theories and engineering practices from other disciplines Takes a step back to provide a human related abstraction level that is not ultimately seen in pure technological elaborations collections The editors provide a collection of numerous computation related projects that form a foundation from which to cross pollinate between different disciplines and further extensive collaboration They present a clear and profound understanding of computing in today s world and provide fundamental solutions to some of the most pertinent humanity related problems

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practicable ways of working with them To encourage communication and to promote interaction between users practitioners and researchers To foster interdisciplinary work and in particular to collaborate with other Technical Committees and Working Groups The 17 contributions in this book describe the scientific technical and further work in TCs and WGs and in many cases also assess the future consequences of the work s results These contributions explore the developments of IFIP and the ICT profession now and over the next 60 years The contributions are arranged per TC and conclude with the chapter on the IFIP code of ethics and conduct   A Semantic Time Framework for Interactive Media Systems Eric Lee,2007

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi,2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher   **Multimedia Semantics - The Role of Metadata** Michael Granitzer,Mathias Lux,Marc Spaniol,2008-05-27 Research in the field of multimedia metadata is especially challenging Lots of scientific publications and reports on research projects are published every year and the range of possible applications is diverse and huge This book gives an overview on fundamental issues within the field of multimedia metadata focusing on contextualized ubiquitous accessible and interoperable services on a higher semantic level The book in hand provides a selection of basic articles being a base for multimedia metadata research Furthermore it presents a view on the current state of the art in multimedia metadata research It provides information from versatile applications domains Broadcasting Interactive TV E Learning and Social Software such as Multimedia on the Web 2 0 Databases for Multimedia Meta Data Multimedia Information Retrieval and Evaluation Multimedia Metadata Standards Ontologies for Multimedia The multimedia metadata community www multimedia metadata info wherefrom this book originated brings together experts from research and industry in the area of multimedia metadata research and application development The community bridges the gap between an academic research and an industrial scale development of innovative products By summarizing the work of the community this book contributes to the aforementioned fields by addressing these topics for a broad range of readers   Proceedings of the ACM Workshop on Next-generation Residential Broadband Challenges ,2004   Storage and Retrieval Methods and Applications for Multimedia 2004 Rainer W. Lienhart,Chung-Sheng Li,2004 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature   **Proceedings, ACM Multimedia ...** ,2002   **The Handbook of Computer Networks, LANs, MANs, WANs, the Internet, and Global, Cellular, and Wireless Networks** Hossein Bidgoli,2007-12-10 A comprehensive look at computer networking from LANs to wireless networks In this second volume of The Handbook of Computer Networks readers will get a complete overview of the

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