

Book Review

Advanced Data Management

Lena Wiese
DE GRUYTER, Oldenbourg
2015

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www.degruyter.com

Data Management is a traditional concept and has a strong fundametal footing. Most of the concepts in this field are extensively addressed by researchers in the last few decades. If there is a new book on data management people may ask the need for a newer one where we have many other sources. But data management practices have undergone radical changes in respect to tools, technologies, platforms and storage. Thus new books reflecting such changes are required to understand the paradigm shift in this domain. One such book is the Advanced data managment produced by Lena Wiese.

This book has fifteen chapters produced in four parts. In the first part 1, introduction, the background has briefly discussed the database concepts includind database properties, components, design, entity-relationship model ad UML. The basics given in this chapter is supported with simple illustrations. In the second chapter on RDBS, the author has explained relational data model, schemas, normalization, concurrency etc. These concepts are detailed with applications in different environments. Numerous examples are also added in the text. In the third chapter the relational data model is highlighted with the statements of their merits. The problems of RDBMS are enumerated with typical solutions for them which is a unique feature of this book. One useful addition in this chapter is a discussion on new data management challenges.

In the fourth chapter on graph databases, the author has explained the graph data structure, theory, matrices, list etc. The model of the graph database with application for social networks is described. The next chapter on XML databases is more significant as XML forms is used widely across applications. This chapter is a highly detailed one with enough supporting arguments. Another chapter on document databases provide a glimpse of implementations particularly the MapReduce framework. The tools Hadoop and MapReduce are explained as their significance is well known. The data model Apache hive is detailed followed by the description of the document database MongoDB. Thus this chapter contributes to the new paradigms in database management. The next one is the column of the storage angle followed by a chapter on extensible record stores.

Object databases form the core of the discussions in the next chapter. The examples are supported for the enumeration of object orientation. The object relation mapping is elegantly explained with many illustrations. Distributed database systems, data fragmentation, replication and synchronization are adequately covered in the three subsequent chapters. The expected new database technologies and their possible implementations are well addressed in the last chapter. This book also has a detailed bibliography.

This book is the core addition in the stock of database literature for the users.

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Fifth International Conference on the Future Generation Communication Technologies (FGCT 2016)
Luton, (near London). UK
August 17-19, 2016
www.socio.org.uk/fgct

In the last decade, a number of newer communication technologies have been evolved, which have a significant impact on the technology, as a whole. The impact ranges from incremental applications to dramatical breakthrough in the society. Users rely heavily on broadcast technology, social media, mobile devices, video games and other innovations to enrich the learning and adoption process.

This conference is designed for teachers, administrators, practitioners, researchers and scientists in the development arenas. It aims to provide discussions and simulations in the communication technology at the broad level and broadcasting technology and related technologies at the micro level. Through a set of research papers, using innovative and interactive approach, participants can expect to share a set of research that will prepare them to apply new technologies to their work in teaching, research and educational development amid this rapidly evolving landscape.

Topics discussed in this platform are not limited to-

- ◆ Emerging cellular and new network architectures for 5G
- ◆ New antenna and RF technology for 5G wireless
- ◆ Modulation algorithms
- ◆ Circuits, software and systems for 5G
- ◆ Convergence of multi-modes, multi-bands, multi-standards and multi- applications in 5G systems
- ◆ Cognitive radio and collaborative transmissions in 5G
- ◆ Computing and processing platform for 5G
- ◆ Programming models and development tools to enable 5G systems
- ◆ Small cells and heterogeneous networks
- ◆ Metrics and Evaluation of 5G systems
- ◆ Standardization of 5G
- ◆ Broadcast technology
- ◆ Future Internet and networking architectures
- ◆ Future mobile communications
- ◆ Mobile Web Technology
- ◆ Mobile TV and multimedia phones
- ◆ Communication Security, Trust, Protocols and Applications
- ◆ Communication Interfaces
- ◆ Communication Modelling
- ◆ Satellite and space communications
- ◆ Communication software
- ◆ Future Generation Communication Networks

- ◆ Communication Network Security
- ◆ Communication Data Grids
- ◆ Collaborative Communication Technology
- ◆ Intelligence for future communication systems
- ◆ Forthcoming optical communication systems
- ◆ Communication Technology for Elearning, Egovernment, Ebusiness
- ◆ Games and games designing
- ◆ Social technology devises, tools and applications
- ◆ Crowdsourcing and Human Computation
- ◆ Human-computer communication
- ◆ Pervasive Computing
- ◆ Grid, crowd sourcing and cloud computing
- ◆ Hypermedia systems
- ◆ Software and technologies for E-communication
- ◆ Intelligent Systems for E-communication
- ◆ Future Cloud for Communication
- ◆ Future warehousing
- ◆ Future communication for healthcare and medical devices applications
- ◆ Future communication for Mechatronic applications

All presented papers in the conference will be published in the proceedings of the conference and submitted to the IEEE Xplore Digital Library.

The conference will have workshops on specific themes, industrial presentation, invited talks and collaborative discussion forums.

Important Dates

Submission of Papers:	June 01, 2016
Notification of Acceptance:	July 01, 2016
Camera Ready:	August 01, 2016
Registration:	August 01, 2016
Conference Dates:	August 06-07, 2016

The selected papers after extension and modification will be published in many peer reviewed and indexed journals.

- ♣ Journal of Computer and System Sciences/ (ISI/Scopus)
- ♣ Journal of Digital Information Management (Scopus/EI)
- ♣ International Journal of Computational Science and Engineering (Scopus and EI Indexed)
- ♣ Decision Analytics
- ♣ International Journal of Big Data Intelligence

- ♣ International Journal of Applied Decision Sciences (Scopus/EI)
- ♣ International Journal of Management and Decision Making (Scopus/EI)
- ♣ International Journal of Strategic Decision Sciences
- ♣ International Journal of Enterprise Information Systems (Scopus/EI)
- ♣ Journal of Electrical Systems
- ♣ Recent Advances in Electrical & Electronic Engineering

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Submissions at <http://www.socio.org.uk/fgct/paper-submission/>

Conference email- fgct@socio.org.uk

CALL FOR PAPERS

Sixth International Conference on Innovating Computing Technology (INTECH 2016)

August 24-26, Dublin, Ireland

www.dirf.org/intech

The First international conference on Innovative Computing Technology (INTECH 2011) was held at Sao Carlos in Brazil followed by the Second International Conference on Innovative Computing Technology (INTECH 2012) at Casablanca in Morocco. The INTECH 2013 and INTECH 2014 were organized at London and Luton, UK respectively. The INTECH 2015 is organized by the Atlantic Research Centre for Information and Communication Technologies of the University of Vigo, Spain. The INTECH 2015 offers the opportunity for institutes, research centers, engineers, scientists and industrial companies to share their latest investigations, researches, developments and ideas in area of Innovative Computing Technology, which covers huge topics.

The INTECH intends to address various innovative computing techniques involving various applications. This forum will address a large number of themes and issues. The conference will feature original research and industrial papers on the theory, design and implementation of computing technologies, as well as demonstrations, tutorials, workshops and industrial presentations. This conference (INTECH 2015) will include presentations of contributed papers by invited keynote speakers.

Conference papers will include innovative computing paradigms in the following topics:

Network and Information Security Innovative Computing Systems and Applications in S & T domains such as –

- ♥ Algorithms Applied Information Systems
- ♥ Artificial Intelligence and Decision Support Systems
- ♥ Broadcasting Technology
- ♥ Cloud Computing
- ♥ Computational Intelligence
- ♥ Data and Network mining
- ♥ Data Stream Processing in Mobile/Sensor Networks
- ♥ Database Systems
- ♥ Digital Image/Video Processing
- ♥ E-Learning, e-Commerce, e-Business and e-Government
- ♥ Electronics Environmental modeling and precision agriculture
- ♥ Fault Classification and Pattern Recognition
- ♥ Green Computing
- ♥ Grid computing
- ♥ Human-Computer Interaction
- ♥ Intelligent Condition
- ♥ Monitoring Mobile network and systems

- ♥ Multimedia and Interactive Multimedia Payment Systems
- ♥ Peer-to-peer social networks
- ♥ Precision Farming W
- ♥ Web Farming
- ♥ Signal Processing Soft Computing Fuzzy and Neural Network Systems,
- ♥ Optimization algorithms Software Engineering Intelligent Farming
- ♥ Web farming,
- ♥ Web irrigation Ubiquitous Computing User Interfaces,
- ♥ Visualization and Modeling
- ♥ Virtual Reality Visualization
- ♥ Web services
- ♥ WWW Applications and Technologies
- ♥ XML and other Extensible Languages

The INTECH proceedings will also be indexed by dblp. All the papers will be reviewed and the accepted papers in the conference will be submitted to IEEE Xplore for indexing and will be indexed in many global databases. In addition, all the accepted papers (for Journals) will be published in the following special issues journals after substantial revision and modification.

In addition, selected papers after complete modification and revision will be published in the following special issues of journals.

Journal of Digital Information Management (JDIM) (Scopus and EI Indexed)

International Journal of Enterprise Information Systems (Scopus and EI Indexed)

International Journal of Grid and High Performance Computing (IJGHPC) (Scopus and EI Indexed)

International Journal of Computational Science and Engineering (Scopus and EI Indexed)

International Journal of Big Data Intelligence

International Journal of Applied Decision Sciences (Scopus/EI)

International Journal of Management and Decision Making (Scopus/EI)

International Journal of Strategic Decision Sciences

International Journal of Enterprise Information Systems (Scopus/EI)

Recent Advances in Electrical & Electronic Engineering (Scopus)

IMPORTANT DATES

Submission of papers:	June 01, 2016
Notification of Acceptance/Rejection:	July 10, 2016
Camera Ready:	August 10, 2016
Registration	August 10, 2016
Conference:	August 24-26, 2016

Contact: intech@dirf.org OR intech@socio.org.uk

**First International Conference on Real Time Intelligent Systems
(RTIS 2016), Beijing, China
September 01-03, 2016)**

**<http://www.socio.org.uk/rtis/>
<http://www.dirf.org/rtis/>**

The Proceedings will be published in the Proceedings of the First International Conference on Real-Time Intelligent Systems, Volume 1 RTIS 2016. (<http://www.springer.com/series/11156>)

About the Conference

Real-Time Computing covers a broad spectrum of the intensively developing area of low-latency priority-driven system responsiveness under certain time constraints to essential and decisive human-computer interactions with constantly incoming data stream. Research on real-time intelligent systems is of a multi-disciplinary nature, exploiting concepts from the areas as diverse as signal processing technologies, computational intelligence, location systems, data processing, digital document processing and embedded system design. To accomplish its real-time performance, systematic analysis is carried out when the systems are working.

Therefore, over the last few years real-time intelligent computing has radically transformed human life style. In the today's competitive and highly dynamic environment, analyzing data in real time is a must to understand in detail how the systems are processing the data and to reason the outputs and anticipate the trends in intelligent computing, has become critical.

To leverage the full potential of the opportunity build complex real time systems, intense research is required and this conference will serve as one such platform to manifest the ongoing research in the real time intelligence system.

The conference welcomes theoretically grounded, methodologically sound research papers from academia and industry that address variety of aspects and innovations related to real-time computing systems.

The scope of the conference includes, but is not limited to the following areas:

- Streaming data, streaming engines
- Big Data systems and applications for high-velocity data
- Analysis in advanced domains such as energy, sensors, etc
- Artificial Intelligence
- Broadband Intelligence
- Cloud Computing and Intelligence
- Collaborative Intelligence
- Crowdsourcing and crowd intelligence
- Data capture in real-time
- Intelligent Database Systems
- Data mining
- Event-driven analytics

- Intelligent Data Analysis
- OLAP for real-time decision support
- Data quality and cleansing
- Intelligent Fuzzy Systems
- Visualizing real-time data and information
- Intelligent Soft Computing
- Privacy and security in Intelligence
- Architectures for Intelligence
- Internet of Things
- Intelligent Robotic Systems
- Smart Services and Platforms
- Intelligent Transportation Systems
- Mobile Smart Systems
- Trace-based intelligent real-time services (eye-tracking, image tracking)
- Real-time intelligent alert systems
- Machine translation in real time
- Multilingual information access
- Multiagent Intelligent Systems
- Intelligent Information Systems
- Adaptive vision algorithms
- Real-time Intelligent Network solutions
- Real-time distributed coding
- Real-time modelling user's information needs
- Real-time noise removal systems
- Real-time intelligent communication
- Real-time remote access systems
- Decision support systems in real time
- Real-time multiprocessor systems

Submissions at: <http://www.socio.org.uk/rtis/paper-submission/>

The Proceedings will be published in the Proceedings of the 1st International Conference on Real-Time Intelligent Systems, Volume 1 RTIS 2016.

(<http://www.springer.com/series/11156>)

Important Dates

Paper Submission: June 15, 2016
Paper Notification: July 05, 2016
Camera ready: August 01, 2016
Registration: August 15, 2016
Conference Dates: September 01-03, 2016

The RTIS will have Doctoral Consortium, DEMO Session, Journal Track, Mentorship Programme, Ph.D. Dissertation Competition, Proofread translation program and Virtual Presentation (Video Conferencing)

The following journals will accommodate the extended versions of the papers.

- Artificial Intelligence in Medicine
- Engineering Applications of Artificial Intelligence
- The International Journal of Intelligent Real
- Time Automation
- Computers in Human Behaviour
- Virtual Reality
- The Journal of Intelligent Systems
- Journal of Digital Information Management (JDIM)
- International Journal of Imaging & Robotics
- International Journal of Tomography & Simulation

Submissions at: <http://www.socio.org.uk/rtis/paper-submission/>

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