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# Availability, Reliability, and Security in Information Systems and HCI

IFIP WG 8.4, 8.9, TC 5 International  
Cross-Domain Conference, CD-ARES 2013  
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# Preface

The Cross-Domain Conference and Workshop CD-ARES is focused on the holistic and scientific view of applications in the domain of information systems.

The idea of organizing cross-domain scientific events originated from a concept presented by the IFIP President Leon Strous at the IFIP 2010 World Computer Congress in Brisbane, which was seconded by many IFIP delegates in further discussions. Therefore, CD-ARES concentrates on the many aspects of information systems in bridging the gap between the research results in computer science and the many application fields.

This effort leads us to the consideration of the various important issues of massive information sharing and data integration, which will (in our opinion) dominate scientific work and discussions in the area of information systems in the second decade of this century.

The organizers of this event who are engaged within IFIP in the area of Enterprise Information Systems (WG 8.9), Business Information Systems (WG 8.4), and Information Technology Applications (TC 5) very much welcome the typical cross-domain aspect of this event.

The collocation with the SeCIHD 2013 Workshop was another possibility to discuss the most essential application factors. Special thanks to Professor Il-sun You for all his efforts in this special track, which was this year for the third time.

Also, we are proud to announce the Special Session Human-Computer Interaction & Knowledge Discovery (HCI-KDD), which was organized in the context of CD-ARES 2013. The ultimate goal of the task force HCI-KDD is to combine the best of two worlds: human-computer interaction (HCI), with emphasis on human intelligence, and knowledge discovery from data (KDD), dealing with computational intelligence. The cross-domain integration and appraisal of different fields provide an atmosphere in which to foster different perspectives and opinions. Special thanks to Dr. Andreas Holzinger, who made it possible to bring together researchers from diverse areas in a highly inter-disciplinary manner, to stimulate fresh ideas and encourage multi-disciplinary work.

Today, e-business depends heavily on the major cryptographic breakthroughs of almost 40 years ago. Without asymmetric cryptography, hardly any form of business transaction would be as easy to secure as it is today. We are thus very happy to have an excellent section on applied cryptography in this book.

The special track on modern cryptography and security engineering (MoCry-SEn) attracted 30 submissions, of which the Program Committee selected 16 for publication in the workshop proceedings. The accepted papers dealt with symmetric-key cryptography, public-key cryptography, algorithmic cryptanalysis, software and hardware implementation of cryptographic algorithms, database encryption and interaction between cryptographic theory and implementation issues.

The papers presented at this conference were selected after extensive reviews by the Program Committee with the essential help of associated reviewers.

We would like to thank all the Program Committee members and the reviewers, who made great effort contributing their time, knowledge, and expertise and foremost the authors for their contributions.

September 2013

Alfredo Cuzzocrea  
Christian Kittl  
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# Table of Contents

## Cross-Domain Conference and Workshop on Multidisciplinary Research and Practice for Information Systems (CD-ARES 2013)

### Economic, Ethical, Legal, Multilingual, Organizational and Social Aspects

Sensor Data Meets Social Networks Reflecting on Benefits in the Case of a Patient Room .....	1
<i>Fabienne Kuhn, Andreas Spichiger, and Reinhard Riedl</i>	
Older Users' Wish List for Technology Attributes: A Comparison of Household and Medical Technologies .....	16
<i>Simon Himmel, Martina Ziefle, Chantal Lidynia, and Andreas Holzinger</i>	
Evaluating the Energy Efficiency of OLTP Operations: A Case Study on PostgreSQL .....	28
<i>Raik Niemann, Nikolaos Korfiatis, Roberto Zicari, and Richard Göbel</i>	

### Context-Oriented Information Integration

Chaining Data and Visualization Web Services for Decision Making in Information Systems .....	44
<i>Ahmet Sayar and Marlon E. Pierce</i>	
A Fully Reversible Data Transform Technique Enhancing Data Compression of SMILES Data .....	54
<i>Shagufta Scanlon and Mick Ridley</i>	
Personalized Web Search Using Emotional Features .....	69
<i>Jianwei Zhang, Katsutoshi Minami, Yukiko Kawai, Yuhki Shiraishi, and Tadahiko Kumamoto</i>	

### Data / Information Management as a Service

MetaExtractor: A System for Metadata Extraction from Structured Data Sources .....	84
<i>Alexandra Pomares-Quimbaya, Miguel Eduardo Torres-Moreno, and Fabián Roldán</i>	

Proxy Service for Multi-tenant Database Access . . . . .	100
<i>Haitham Yaish, Madhu Goyal, and George Feuerlicht</i>	
Extracting Correlated Patterns on Multicore Architectures . . . . .	118
<i>Alain Casali and Christian Ernst</i>	

**Context-Oriented Information Integration and Location-Aware Computing**

Index Data Structure for Fast Subset and Superset Queries . . . . .	134
<i>Iztok Sarnik</i>	
Opinion Mining in Conversational Content within Web Discussions and Commentaries . . . . .	149
<i>Kristína Machová and Lukáš Marhefka</i>	
Diagnosis of Higher-Order Discrete-Event Systems . . . . .	162
<i>Gianfranco Lamperti and Xiangfu Zhao</i>	

**Security and Privacy**

Combining Goal-Oriented and Problem-Oriented Requirements Engineering Methods . . . . .	178
<i>Kristian Beckers, Stephan Faßbender, Maritta Heisel, and Federica Paci</i>	
GPRS Security for Smart Meters . . . . .	195
<i>Martin Gilje Jaatun, Inger Anne Tøndel, and Geir M. Kjøien</i>	
Cloud-Based Privacy Aware Preference Aggregation Service . . . . .	208
<i>Sourya Joyee De and Asim K. Pal</i>	

**Risk Management and Business Continuity**

A Method for Re-using Existing ITIL Processes for Creating an ISO 27001 ISMS Process Applied to a High Availability Video Conferencing Cloud Scenario . . . . .	224
<i>Kristian Beckers, Stefan Hofbauer, Gerald Quirchmayr, and Christopher C. Wills</i>	
Towards Improved Understanding and Holistic Management of the Cyber Security Challenges in Power Transmission Systems . . . . .	240
<i>Inger Anne Tøndel, Bodil Aamnes Mostue, Martin Gilje Jaatun, and Gerd Kjølle</i>	
Seeking Risks: Towards a Quantitative Risk Perception Measure . . . . .	256
<i>Åsmund Ahlmann Nyre and Martin Gilje Jaatun</i>	

## Security and Privacy and Location Based Applications

A Framework for Combining Problem Frames and Goal Models to Support Context Analysis during Requirements Engineering . . . . .	272
<i>Nazila Gol Mohammadi, Azadeh Alebrahim, Thorsten Weyer, Maritta Heisel, and Klaus Pohl</i>	
Towards a Pervasive Access Control within Video Surveillance Systems . . . . .	289
<i>Dana Al Kukhun, Dana Codreanu, Ana-Maria Manzat, and Florence Sedes</i>	
Analyzing Travel Patterns for Scheduling in a Dynamic Environment . . .	304
<i>Sonia Khetarpaul, S.K. Gupta, and L. Venkata Subramaniam</i>	

## Human-Computer Interaction and Knowledge Discovery (HCI-KDD 2013)

Human-Computer Interaction and Knowledge Discovery (HCI-KDD):What Is the Benefit of Bringing Those Two Fields to Work Together? . . . . .	319
<i>Andreas Holzinger</i>	
Making Sense of Open Data Statistics with Information from Wikipedia . . . . .	329
<i>Daniel Hienert, Dennis Wegener, and Siegfried Schomisch</i>	
Active Learning Enhanced Document Annotation for Sentiment Analysis . . . . .	345
<i>Peter Koncz and Ján Paralič</i>	
On Graph Entropy Measures for Knowledge Discovery from Publication Network Data . . . . .	354
<i>Andreas Holzinger, Bernhard Ofner, Christof Stocker, André Calero Valdez, Anne Kathrin Schaar, Martina Ziefle, and Matthias Dehmer</i>	
Visualization Support for Multi-criteria Decision Making in Geographic Information Retrieval . . . . .	363
<i>Chandan Kumar, Wilko Heuten, and Susanne Boll</i>	
Immersive Interactive Information Mining with Application to Earth Observation Data Retrieval . . . . .	376
<i>Mohammadreza Babae, Gerhard Rigoll, and Mihai Datcu</i>	
Transfer Learning for Content-Based Recommender Systems Using Tree Matching . . . . .	387
<i>Naseem Biadisy, Lior Rokach, and Armin Shmilovici</i>	

Mobile Movie Recommendations with Linked Data . . . . .	400
<i>Vito Claudio Ostuni, Giosia Gentile, Tommaso Di Noia, Roberto Mirizzi, Davide Romito, and Eugenio Di Sciascio</i>	
ChEA2: Gene-Set Libraries from ChIP-X Experiments to Decode the Transcription Regulome . . . . .	416
<i>Yan Kou, Edward Y. Chen, Neil R. Clark, Qiaonan Duan, Christopher M. Tan, and Avi Ma'ayan</i>	
On the Prediction of Clusters for Adverse Reactions and Allergies on Antibiotics for Children to Improve Biomedical Decision Making . . . . .	431
<i>Pinar Yildirim, Ljiljana Majnarić, Ozgur Ilyas Ekmekci, and Andreas Holzinger</i>	
A Study on the Influence of Semantics on the Analysis of Micro-blog Tags in the Medical Domain . . . . .	446
<i>Carlos Vicient and Antonio Moreno</i>	
Graphic-Based Concept Retrieval . . . . .	460
<i>Massimo Ferri</i>	
On Interactive Data Visualization of Physiological Low-Cost-Sensor Data with Focus on Mental Stress . . . . .	469
<i>Andreas Holzinger, Manuel Bruschi, and Wolfgang Eder</i>	
Marking Menus for Eyes-Free Interaction Using Smart Phones and Tablets . . . . .	481
<i>Jens Bauer, Achim Ebert, Oliver Kreylos, and Bernd Hamann</i>	
On Visual Analytics and Evaluation in Cell Physiology: A Case Study . . . . .	495
<i>Fleur Jeanquartier and Andreas Holzinger</i>	
<b>Author Index . . . . .</b>	<b>503</b>