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Editors :
Edgar Weippl, Maria Indrawan-Santiago,
Matthias Steinbauer, Gabriele Kotsis, Ismail Khalil (eds.)

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Edgar Weippl, Maria Indrawan-Santiago, Matthias Steinbauer, Gabriele Kotsis, Ismail Khalil (eds.)

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PREFACE

We are proud to present the proceedings of iiWAS2013 in Vienna, Austria. In these proceedings, you will find 113 papers accepted at the 15th International Conference on Information Integration and Web-based Applications & Services. The acceptance rate for full papers was around 30%.

For this preface, we chose five papers that exemplify the wide range of topics addressed at the conference. From the Semantic Web to object-oriented frameworks for web Services, from social media and opinion-mining to e-commerce, these papers touch upon only a few of the many topics discussed at iiWAS2013.

In the paper "Formal Linked Data Visualization Model", Brunetti et al. contribute to the growing field of data visualization, which allows non-expert users to explore the Semantic Web. Their model makes dynamic connections between different data using a library of generic visualizations. Like so many recent developments, it is useful both for users and for data analysts, as it can also be used to make detailed analyses of Linked Data.

Another area where the boundaries between users and researchers become blurred is that of social media. In "Two Phase Extraction Method for Multi-label Classification of Real Life Tweets", Yamamoto & Satoh describe how they developed a system for classifying tweets of real-life relevance (such as train delays or locations of food and water during an earthquake) into multiple categories so as to increase their usefulness for other users. Due to the typically short sentences used in Tweets, the usual mining approaches cannot be applied, so their method derives the associations and labeling rules from a smaller set of manually labeled tweets.

The extraction of meaning is also the topic of Dinsoreanu et al. "A scalable approach for Contradiction Detection driven by Opinion mining"; however, their focus is on detecting contradicting opinions. Their method extracts opinions from natural language documents, such as news, reviews, etc., and detects inconsistencies – i.e., contradictory opinions expressed by one or several people. They also identify communities based on matching opinions and social data, and can track changes in opinion over time.

In "Good&Service Bundles and B2B E-Commerce by Global Narrow-Specialized Companies", Fauska et al. address the question of how e-commerce can be used profitably by highly specialized companies, which often dominate their niche markets. In contrast to large multinationals, which have a broad customer base and a worldwide reputation, niche companies have a limited customer share and are hardly known outside their field of specialization. While many of these companies recognized the value of e-commerce very early in the 2000s and have a good reputation, their solutions are often so highly specialized that it is hard to acquire customers without direct customer contacts. The paper discusses these issues on the example of a case study and formulates some interesting questions for future research.

Moving from e-commerce to Web services, "The Substitution Principle in an Object-Oriented Framework for Web Services: From Failure to Success" by Allam et al. discusses issues in the specification of object-oriented frameworks and suggests that solutions used in other areas should be applied there as well: A loose coupling of the service and object layers would allow changes in the service layer with only a minimal impact on the object layer, while introducing interoperability induced by the substitution principle would make it possible to convert subtype values into supertype values. They find that the cxf framework has some coupling and interoperability issues caused by the failure of the substitution principle and propose a new specification for the framework.

While these five papers represent only a few of the many topics addressed in this volume, we hope that this introduction has given you a glimpse of the wide range of papers and whet your appetite for more.

Edgar Weippl and Maria Indrawan-Santiago
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Proceedings of iiWAS2013

Table of Contents

Proceedings of iiWAS2013

Keynote Talks

Interoperability and Semantics - a reoccurring Issue?
Erich J. Neuhold (University of Vienna, Austria) 1

New Technologies: We have seen nothing yet
Hermann Maurer (Graz University of Technology, Austria) 2

Recent Studies in Privacy Preservation
Leon S.L. Wang (National University of Kaohsiung, Taiwan) 3

NoSQL databases - no panacea for Big Data processing
Jaroslav Pokorny (Charles University in Prague, Czech Republic) 4

iiWAS2013 Papers

SOCIAL NETWORKS AND ANALYSIS

A scalable approach for Contradiction Detection driven by Opinion Mining
Mihaela Dinsoreanu, Rodica Potolea (Technical Univeristy of Cluj-Napoca, Romania) 7

Two Phase Extraction Method for Multi-label Classification of Real Life Tweets
Shuhei Yamamoto, Tetsuji Satoh (University of Tsukuba, Japan) 16

Conversation Analysis Based on Interpersonal Relationship in Consensus Building
Ning He, Osamu Yoshie (Research Center for Information, Production and Systems, Waseda University, Japan) 26

Context Oriented Analysis of Interest Reflection of Tweeted Webpages based on Browsing Behavior
Hao Han, Hidekazu Nakawatase, Keizo Oyama (Kanagawa University, National Institute of Informatics, National Institute of Informatics and The Graduate University for Advanced Studies (SOKENDAI), Japan) 34

Analysis of Microblog Rumors and Correction Texts for Disaster Situations
Akiyo Nadamoto, Mai Miyabe, Eiji Aramaki (Kyoto University, Japan) 44

Automatic Domain-Specific Sentiment Lexicon Generation with Label Propagation
Yen-Jen Tai, Hung-Yu Kao (National Cheng Kung University, Taiwan) 53

Behavior Analysis of Microblog Users Based on Transitions in Posting Activities
Yutaro Yamaguchi, Shuhei Yamamoto, Tetsuji Satoh (Graduate School of Library, Information and Media Studies, University of Tsukuba, Japan) 63

Personalized Photo Recommendation By Leveraging User Modeling On Social Network
Najeeb Elahi, Randi Karlsen, Einar J. Holsbø (University of Tromso, Norway) 68

A System for Social Reading based on EPUB3
Eri Kataoka, Toshiyuki Amagasa, Hiroyuki Kitagawa (University of Tsukuba, Japan) 72

Maximum Complex Task Assignment: Towards Tasks Correlation in Spatial Crowdsourcing
Hung Dang, Tuan Nguyen, Hien To (University of Information Technology, Vietnam, University of Southern California, USA) 77

SADINA: Adaptive System for Academic News Dissemination
Andrea Barraza-Urbina, Ricardo Rugeles, Angela Carrillo-Ramos (Pontificia Universidad Javeriana, Colombia) 82

A Local Method for ObjectRank Estimation
Yuta Sakakura, Yuto Yamaguchi, Toshiyuki Amagasa, Hiroyuki Kitagawa (University of Tsukuba, Japan) 92

Up or Down? Click-Through Rate Prediction from Social Intention for Search Advertising
Yi-Ting Chen, Hung-Yu Kao (National Cheng Kung University, Taiwan) 102

A User-Centric Feature Identification and Modeling Approach to Infer Social Ties in OSNs
Mudasir Wani, Majed Alrubaian, Muhammad Abulaish (King Saud University, Saudi Arabia) 107

NOSQL DATABASES

Experimental Comparison of Graph Databases
Vojtech Kolomicenko, Martin Svoboda, Irena Holubova (Charles University, Prague, Czech Republic) 115

On Providing DDL Support for a Relational Layer over a Document NoSQL Database
Gabriel Dos Santos Ferreira, Andre Calil, Ronaldo Dos Santos Mello (Universidade Federal de Santa Catarina, Brazil) 125

Design and Evaluation of Lifelog Mashup Platform with NoSQL Database
Kohei Takahashi, Shinsuke Matsumoto, Sachio Saiki, Masahide Nakamura (Kobe University, Japan) 133

MODELING AND METHODOLOGY

A Knowledge Transfer Framework for Supporting the Transition to Agile Development of Web Application in the Thai Telecommunications Industry
Nalinpat Porrawatpreyakorn, Gerald Quirchmayr, Wichian Chutimaskul, Maleerat Sodanil (King Mongkut's University of Technology Thonburi, University of Vienna, King Mongkut's University of Technology North Bangkok, Thailand) 140

A Study of Knowledge Transfer in the Context of Information Systems Integration in Thailand
Sakchai Tangprasert, Nalinpat Porrawatpreyakorn, Sucha Smanchat (King Mongkut's University of Technology Thonburi, University of Vienna, King Mongkut's University of Technology North Bangkok, Thailand) 149

Toward a Time-centric modeling of Business Processes in BPMN 2.0
Saoussen Cheikhrouhou, Slim Kallel, Nawal Guermouche, Mohamed Jmaiel (REDCAD ENIS, University of Sfax, INSA/LAAS-CNRS, Tunisia, France) 154

SMART MODELS AND SYSTEMS

Multi-model Framework for modeling Holistic Climate and Air quality Strategies
Thanh Binh Nguyen, Fabian Wagner, Wolfgang Schoepp (IIASA, Austria) 164

Avatar-based Innovation Processes - Are Virtual Worlds a breeding ground for Innovations?
Niina Maarit Novak, Andreas Mladenow, Christine Strauss (University of Vienna, Austria) 174

WEB APPLICATIONS

Mastering Japanese through Augmented Browsing
Werner Winiwarter (University of Vienna, Austria) 179

Factors Influencing Hybrid Self-Regulated and Collaborative Learning for End-User Training: A Systematic Literature Review
Sirikorn Krompho, Nalinpat Porrawatpreyakorn, Sucha Smanchat, Montean Rattanasiriwongwut (King Mongkut's University of Technology North Bangkok, Thailand) 189

Good&Service Bundles and B2B E-Commerce by Global Narrow-Specialized Companies
Polina Fauska, Natalia Kryvinska, Christine Strauss (University of Vienna, Austria) 194

Multi-Criteria Recommender Systems based on Multi-Attribute Decision Making
Hdioud Ferdaous, Bouchra Frikh, Brahim Ouhbi (Ecole Supérieure de Technologie, LM2I Lab ENSAM, Moulay Ismaïl University, Morocco) 203

Advanced Web API search patterns adding collective knowledge to public repository facets
Devis Bianchini, Valeria De Antonellis, Michele Melchiori (University of Brescia - Dept. of Information Engineering, Italy) 211

WEB SERVICES

Project Management as a Service
Marina Stoshikj, Natalia Kryvinska, Christine Strauss (University of Vienna, Austria) 220

A Business Rules driven Framework for Consumer-Provider Contracting of Web Services
Werner Mach, Benedikt Pittl, Erich Schikuta (University of Vienna, Austria) 229

An Industrial Experience on using Models to Test Web Service-Oriented Applications
André Takeshi Endo, Maicon Bernardino Da Silveira, Elder Rodrigues, Adenilso Simao, Flavio Oliveira, Avelino F. Zorzo, Rodrigo Saad (ICMC/USP, Pontifical Catholic University of Rio Grande do Sul (PUCRS), FACIN-PUCRS, DELL, Brazil) 240

The Substitution Principle in an Object-Oriented Framework for Web Services: From Failure to Success
Diana Allam, Herve Grall, Jean-Claude Royer (Ecole des Mines de Nantes, France) 250

Capturing and Analysis of Service Network Models
Aneta Kabzeva, Joachim Goetze, Paul Mueller (University of Kaiserslautern, TU Kaiserslautern, Germany) 260

A Novel Matchmaking Approach for Automated Semantic Web Service Discovery
Asma Adala, Tabbane Nabil, Sami Tabbane (MEDIATRON, SUP'COM, Tunisia) 265

Compose Presence for Composite Web Services by Timed AND-OR Tree
Li Li, Tao Cai, Zhe Wang, Wu Chou (Huawei, China, Rutgers University, USA) 270

Social Web Services Discovery: A Community-Based Approach
Abdelmalek Metrouh, Farid Mokhati (University of Tebessa, Université of Oum El Bouaghi, Algeria) 275

Automatic Recognition of Design Patterns from UML-based Software Documentation
Beniamino Di Martino, Antonio Esposito (Second University of Naples, Italy) 280

A Model Driven Approach for the Development of Semantic RESTful Web Services
Nirondes Tavares, Samyr Vale (Federal University of Maranhão, Brazil) 290

LINKED DATA

Enabling Linked Data access to the Internet of Things
Timofey Ermilov, Sören Auer (University of Leipzig, Germany) 300

Formal Linked Data Visualization Model
Josep Maria Brunetti, Sören Auer. Roberto Garcia, Jakub Klimek, Martin Necaský (Universitat de Lleida, Spain, Universität Leipzig, Germany, Charles University, Czech Republic) 309

SPARQL Endpoint Metrics for Quality-Aware Linked Data Consumption
Johannes Lorey (Hasso Plattner Institute, Potsdam, Germany) 319

Optimizing SPARQL-to-SQL Rewriting
Joerg Unbehauen, Claus Stadler, Sören Auer (University of Leipzig, University of Bonn, Fraunhofer IAIS, Germany) 324

Toward Recipes for Arabic DBpedia
Alia Bahanshal, Hend Al-Khalifa (King Saud University, Saudi Arabia) 331

RDFreduce: Customized Aggregations with Provenance for RDF Data based on an Industrial Use Case
Christian Lettner, Mario Pichler, Wilhelm Kirchmayr, Friedrich Kokert, Martin Habringer (Software Competence Center Hagenberg GmbH, voestalpine Stahl GmbH, Austria) 336

A Domain-based Approach to Publish Data on the Web
Ayrton Silva, Luiz Carlos Chaves, Damires Souza (Federal Institute of Education, Science and Technology of Paraiba, Brazil) 341

Accounting and Management Information Systems: A Semantic Integration
Walter Schwaiger, Michael Abmayer (Vienna University of Technology, Austria) 346

APPLICATIONS OF ONTOLOGY

Ontology-based Data Integration for Corporate Sustainability Information Systems
Lisa Madlberger, Andreas Thöni, Peter Wetz (Vienna University of Technology, Austria) 353

An Ontology-Based Query Expansion for an Agricultural Expert Retrieval System
Maleerat Sodanil, Pilapan Phonarin, Nalinpat Porrawatpreyakorn (King Mingkut's University of Technology North Bangkok, Rajamangala University of Technology Krungthep, Thailand) 358

Ontology-based Annotation and Indexing for Vietnamese Text Document
Tuyen Thi-Thanh Do (University of Information Technology, VNU-HCM, Vietnam) 363

Improving Semantic Interoperability with Ontology Alignment Negotiation and Reutilization
Virgínia Nascimento, Maria João Viamonte. Alda Canito, Nuno Silva (GECAD –Polytechnic of Porto (ISEP/IPP), Portugal) 368

CLOUD AND GRID SYSTEMS

An Adaptive Grid Workflow Scheduling Based on Bottleneck Detection and Execution Context
Sucha Smanchat, Suchon Sritawathon, Thavatchai Ngamsantivong (King Mongkut's University of Technology North Bangkok, Thailand) 375

Semantic and Matchmaking Technologies for Discovering, Mapping and Aligning cloud providers's services
Giuseppina Cretella, Beniamino Di Martino (Second University of Naples, Italy) 380

Towards a Common Semantic Representation of Design and Cloud Patterns
Beniamino Di Martino, Antonio Esposito (Second University of Naples, Italy) 385

HEALTH INFORMATICS

Implementing a Data Infrastructure for a Pharmaceutical Community
Juha Puustjärvi, Leena Puustjärvi (University of Helsinki, Pharmacy of Kaivopuisto, Findland) 390

iCare: Intelligent Medical Information Logistics
Bernd Michelberger, Armin Reisch, Bela Mutschler, Jörg Wurzer, Markus HippManfred Reichert (University of Applied Sciences Ravensburg-Weingarten, Germany, iQser AG, University of Ulm, Switzerland) 396

Linked Open Data for Healthcare Professionals
Jakub Kozak, Martin Necasky, Jan Dedek, Jakub Klimek, Jaroslav Pokorny (Charles University of Prague, Collite Systems, Czech Republic) 400

SYSTEMS PERFORMANCE

An extensive study of Web robots traffic
Maria Carla Calzarossa, Luisa Massari, Daniele Tessera (University of Pavia, Italy) 410

Improved Server Architecture for Highly Efficient Message Mediation
Hiranya Jayathilaka, Pradeep Fernando, Dushan Abeyruwan, Kasun Indrasiri, Supun Kamburugamuwa, Sadeep Jayasumana, Paul Fremantle. Sanjiva Weerawarana (UCSB, WSO2, Indiana University, ANU, USA, Sri Lanka, Australia) 418

DATA INFRASTRUCTURE

Big Data in Large Scale Intelligent Smart City Installations
Sylva Girtelschmid, Matthias Steinbauer, Vikash Kumar, Anna Fensel, Gabriele Kotsis (Institute of Telecooperation Johannes Kepler University Linz, The Telecommunications Research Center Vienna, Austria) 428

DASISH – An Initiative for a European Data Humanities Infrastructure
Bartholomäus Wloka, Werner Winiwarter, Gerhard Budin (University of Vienna, Austria) 433

Linked Widgets - An Approach to Exploit Open Government Data
Dat Trinh Tuan, Lam Do Ba, Peter Wetz, Amin Anjomshoaa, A Min Tjoa (Vienna University of Technology, Austria, Hanoi University of Technology, Vietnam) 438

ONTOLOGY

Ontology Mapping and Reasoning in Semantic Time Series Processing
Bojan Bozic, Werner Winiwarter (Austrian Institute of Technology, University of Vienna, Austria) 443

Strigil: A Framework for Data Extraction
Jakub Starka, Irena Holubova (Charles University in Prague, Czech Republic) 453

Ontology-based Activity Recognition Framework and Services
Liming Luke Chen, Chris Nugent, Joseph Rafferty (University of Ulster, United Kingdom) 463

Introducing inference-driven OWL ABox enrichment
Alda Canito, Paulo Maio, Nuno Silva (ISEP – IPP, Portugal) 470

Improved Relaxation-based Ontology Matching Negotiation
Alda Canito, Paulo Maio, Nuno Silva (DEI & GECAD - ISEP - IPP, Portugal) 479

XML

DaemonX: Design, Adaptation, Evolution, and Management of Native XML (and More Other) Formats
Marek Polak, Martin Necasky, Irena Holubova (Charles University, Prague, Czech Republic) 484

Spelling Suggestion for XML Keyword Search Based on XSketch Synopsis
Sheng Li, Junhu Wang (Griffith University, Australia) 494

An XML Algebra For Online Processing of XML Documents
Handoko Handoko, Janusz Getta (University of Wollongong, Australia) 503

Methodology for Design and Evolution of XML Schemas using Conceptual Modeling
Martin Necasky (Charles University, Prague, Czech Republic) 508

An Evaluation of Similarity Search Methods Blending Structures and Keywords in XML Documents
Apichaya Auvattanasombat, Yousuke Watanabe, Haruo Yokota (Tokyo Institute of Technology, Japan) 518

SECURITY

Mirror Presence: Secure Web Identity Resolution and Call Control for WebRTC
Li Li, Wu Chou, Tao Cai, Zhe Wang, Zhihong Qiu (Huawei, China, Rutgers University, USA) 523

Towards a Context-Aware WebID Certificate Creation Taking Individual Conditions and Trust Needs into Account
Stefan Wild, Markus Ast, Martin Gaedke (Technische Universität Chemnitz, Germany) 532

Account Reachability: A Measure of Privacy Risk for Exposure the User's Multiple SNS Accounts
Ayano Yoshikuni, Chiemi Watanabe (Ochanomizu University, Tsukuba University, Japan) 542

A User-friendly Image-Text Fusion CAPTCHA for Secure Web Services
Yeonchan Ahn, Namsoo Kim, Yoo-Sung Kim (Seoul National University, Inha University, Korea) 550

Sensitive and Neighborhood Privacy on Shortest Paths in the Cloud
Leon Wang, Jia-Wei Chen, I-Hsien Ting, Tzung-Pei Hong (National University of Kaohsiung, Taiwan) 555

Classification of Security Issues and Solutions in Cloud Environments
Chraibi Mhammed, Hamid Harroud, Abdelilah Maach (Al Akhawayn University, Ecole Mohammadia des Ingenieurs, Morocco) 560

DATA INTEGRATION

Identifying the Truth - Aggregation of Named Entity Extraction Results
Katja Pfeifer, Johannes Meinecke (SAP AG, Germany) 565

Aspects of Information Integration in a Wiki
Rizwan Mehmood, Herman Maurer (TU Graz, Austria) 575

Towards integration of images on Web
Rizwan Mehmood, Herman Maurer (TU Graz, Austria) 580

Integration of legal datasets: from meta-model to implementation
Gioele Barabucci, Angelo Di Iorio, Francesco Poggi, Fabio Vitali (Università di Bologna) 585

TEXT ANALYSIS AND ITS APPLICATIONS

Plagiarism Detection For Indonesian Texts
Lucia Dwi Krisnawati, Klaus Schulz (Duta Wacana Christian University, CIS, Ludwig Maximilians University, Indonesia, Germany) 595

Text Document Clustering with Hybrid Feature Selection
Asmaa Benghabrit, Brahim Ouhb, Bouchra Frikh, El Moukhtar Zemmouri, Hicham Behja (Moulay Ismaïl University, Morocco) 600

A Semantic Similarity Measure between Nouns based on the Structure of Wordnet
Thi Thuy Anh Nguyen, Stefan Conrad (Heinrich-Heine-Universität Düsseldorf, Germany) 605

Personalized Query Expansion for Web Search Using Social Keywords
Sheikh Muhammad Sarwar, Md. Anowarul Abedin, A. H. M. Sofi Ullah, Abdullah-Al-Mamun X (University of Lieberal Arts Bangladesh, University of Asia Pacific, Bangladesh) 610

Metadata Extraction from Books with Facts about Austria
Petra Korica-Pehserl (Graz University of Technology, Austria) 615

Building an Vietnamese Lexicon Ontology for Syntactic Parsing and Document Annotation
Tuyen Thi-Thanh Do (University of Information Technology, VNU-HCM, Vietnam) 619

WEB DEVELOPMENT AND TOOLS

Accelerating Structured Web Crawling without Losing Data
Boutros R. El-Gamil, Werner Winiwarter (Vienna University of Technology, University of Vienna, Austria) 624

A Framework for supporting the development of Multi-Screen Web Applications
Maiko Imoto, Yasuhiko Miyazaki, Tetsuro Tokunaga, Kiyoshi Tanaka, Shinji Miyahara (NTT Service Evolution Laboratories, NTT Corporation, Japan) 629

Proxy Service to Contextualize Web Browsing for the Visually Impaired
Najd Al-Mouh, Hend Al-Khalifa, Abdulmalik Al-Salman (King Abdulaziz City for Science and Technology, King Saud University) 634

Rapid Authoring of Web-based Multiplayer Online Games
Shusuke Okamoto, Masaki Kohana, Masaru Kamada, Tatsuhiro Yonekura (Seikei University, Ibaraki University, Japan) 639

SERVICE ORIENTED SYSTEMS

Systematic Approach for QoS Estimation of Web Services
Dessislava Petrova-Antonova, Olga Georgieva (SU "St. Kliment Ohridski", Bulgaria) 644

A Semantic Service-Oriented Platform for Integrated and Personalised Access to Sustainable Projects
Felipe Costa, Carlos Dantas, Tatiana Sorrentino, Claudia Ribeiro (UERN, Brazil) 649

Process Decomposition Based on Semantics and Privacy-Aware Requirements-Driven Approach
Mohamed-Anis Zemni, Nejib Ben-Hadj Alouane, Amal Mammar (Ecole Nationale des Sciences de l'Informatique, Manouba, Ecole Nationale d'Ingénieurs de Tunis, Tunis, Telecom SUDPARIS, Evry, Tunisia, France) 654

MOBILE AND REMOTE SYSTEMS

A Case Study of Application Development for Mobile and Location-Based Services
Daniel Granlund, Dan Johansson, Karl Andersson, Robert Brännström (Luleå University of Technology, Sweden) 658

The Design and Implementation of a Mobile Massive Open Online Courses Platform
Meng Yu, Jiajun Wang (Department of Computer Technology Shanghai Jiao Tong University, Continuing Education College Shanghai Jiao Tong University, China) 663

Debugging Mobile Agent Systems
Masayuki Higashino, Shin Osaki, Shinya Otagaki, Kenichi Takahashi, Takao Kawamura, Kazunori Sugahara (Tottori University, Japan) 667

A Prototype System of Remote Music Therapy Using the Latest Communication Technology in Japan
Naoko Kosugi, Naoki Kodama, Sachiko Shimizu, Shunsuke Saruwatari, Tsutomu Terada, Hiroaki Kazui, M.D., Koichi Yamashita, M.D, Hideyuki Kawashima, Masayuki Hata (NTT Communication and Science Labs, Takasaki University of Health and Welfare, Shizuoka University, Kobe University, Osaka University, Aichi Medical University, University of Tsukuba, Tripod Works Co., Ltd. Japan) 671

DEVELOPMENT METHODOLOGY

Semi-Automated Software Composition Through Generated Components
Felix Mohr, Hans Kleine Büning (University of Paderborn, Germany) 676

Design and Implementation of a Private RESTful API to Leverage the Power of an eCommerce Platform
Franclin Foping, Jerry Walsh, Donogh Roche (Nitrosell LTD, Ireland) 681

Efficient, Unified, and Intelligent User Requirement Collection and Analysis in Global Enterprises
Ilyès Boukhari, Ladjel Bellatreche, Selma Khouri (LIAS/ISAE-ENSMA, France) 686

An Approach to Evaluate the Performance of Web Application Systems
Tahani Hussain (Kuwait Institute for Scientific Research, Kuwait) 692

ENTERPRISE SYSTEMS

A Unified Messaging-Based Architectural Pattern for Building Scalable Enterprise Service Bus
Karim Mahmoud (IBM, Egypt) 697

A Lightweight Approach to Flexible Form Generation
Markus Aleksy, Subudhi Roshan, Thomas Scholl (Industrial Software and Applications, ABB Corporate Research Center, University of South Carolina) 702

Co-Simulation for Performance Evaluation of an Enterprise's Web Storage Systems
Tahani Hussain, Paulvanna Marimuthu, Sami Habib (Kuwait Institute for Scientific Research, Kuwait University, Kuwait) 706

Routing Cost and Latency in the Village Telco Wireless Mesh Network
Michael Adeyeye, Antoine Van Gelder, Sunday Ojo (Cape Peninsula University of Technology, South Africa) 710

INTELLIGENT SYSTEMS

How Semantic Knowledge can Enhance the Access to PA Online Services
Anna Goy, Diego Magro, Matteo Casu, Vittorio Di Tomaso (University of Torino, CELI srl, Italy) 714

Context Based Adaptation of Semantic Rules in Smart Buildings
Vikash Kumar, Anna Fensel, Peter Froehlich (The Telecommunications Research Center Vienna, Austria) 719

Towards a Generic Data Model for the Integrated Intelligent Computer-Assisted Language Learning (iiCALL) Environment
Harald Wahl, Werner Winiwarter (University of Applied Sciences Technikum Wien, University of Vienna, Austria) 729