CONTENTS

INVITED SPEAKERS

Keynote Speakers

CLOUD COMPUTING IN EDUCATION - The Intersection of Challenges and Opportunities
Ivan Ivanov

SMART CLOUD ENGINEERING, NOMENCLATURE, AND ENABLEMENT
Tony Shan

CLOUD SERVICE SUPPLY CHAIN
Donald Ferguson

ENTERPRISE INTEROPERABILITY WITH THE INTERNET OF SERVICES
Marten Van Sinderen

SEARCH WITH A LITTLE HELP FROM YOUR FRIENDS - Making Web Search more Collaborative
Barry Smyth

CHALLENGES FOR SOFTWARE AGENTS SUPPORTING DECISION-MAKERS IN TRADING FLOWERS WORLDWIDE
Eric van Heck

WEB SECURITY

Short Papers

EMPLOYING MULTI-CORE PROCESSOR ARCHITECTURES TO ACCELERATE JAVA CRYPTOGRAPHY EXTENSIONS
Mario Ivkovic and Thomas Zefferer

(role)CAST: A FRAMEWORK FOR ON-LINE SERVICE TESTING
Guglielmo De Angelis, Antonia Bertolino and Andrea Polini

Poster

THE IMPACT OF SOCIAL NETWORKS ON USER PRIVACY - What Social Networks Really Learn about their Users!
Steffen Ortmann and Peter Langendörfer

INTERNET TECHNOLOGY

Full Papers

A GRAPH DECOMPOSITION APPROACH TO WEB SERVICE MATCHMAKING
S. Lagraa, H. Seba, R. Khennoufa and H. Kheddouci

CHARACTERIZING DISTRIBUTED XML PROCESSING - Moving XML Processing from Servers to Networking Nodes
Yoshiyuki Uratani, Hiroshi Koide, Dirceu Cavendish and Yuji Oie

XI
COFOCUS - Compact and Expanded Restful Services for Mobile Environments
Li Li and Wu Chou

GRAPH-BASED MANAGEMENT OF COMMUNITIES OF WEB SERVICE REGISTRIES
Olfa Bouchaala, Mohamed Sellami, Walid Gaaloul, Samir Tata and Mohamed Jmaiel

GUARANTEEING STRONG (X)HTML COMPLIANCE FOR DYNAMIC WEB APPLICATIONS
Paul G. Talaga and Steve J. Chapin

ENHANCING XML-CACHE EFFICIENCY BY XML COMPRESSION
Stefan Böttcher, Lars Fernhomborg and Rita Hartel

SHORT PAPERS

INTEGRATION OF VARIOUS IT SYSTEMS AND SENSOR INFORMATION FOR THE HANDLING OF RFID-ENABLED CATERING GOODS IN THE AVIATION DOMAIN
Falk Scheiding, Kresimir Vidackovic, Felix Tönnies and Reinhard Becker

LazyDOM - Transparent Partial DOM Loading and Unloading for Memory Restricted Environments
Daniel Peintner, Richard Kuntschke, Jörg Heuer and Harald Kosch

DIVERSITY OF THE MASHUP ECOSYSTEM
Michael Weiss and Solange Sari

POSTERS

W3C WIDGETS - A Solution for Implementing Platform-independent Mobile Applications
Stefan Schafer, Stefan Christmann and Svenja Hagenhoff

WEB WORKLOAD GENERATORS - A Survey Focusing on User Dynamism Representation
Raid Peña-Ortiz, Julio Sahuquillo, José A. Gil and Ana Pont

THE MVC-WEB DESIGN PATTERN
Ralph F. Grove and Eray Ozkan

INTERFACE EXPRESSIONS MONITORING FOR BPEL PROCESSES
Wassim Jendoubi, Guy Tremblay and Aziz Salah

IDENTIFYING CONTEXT SOURCES TOWARDS CONTEXT-AWARE ADAPTED WEB SERVICES
Georgia M. Kapitsaki

MODEL-DRIVEN APPLICATION DEVELOPMENT ENABLING INFORMATION INTEGRATION
Georgios Voulalas and Georgios Evangelidis

AN INTEGRATED E-RECRUITMENT SYSTEM FOR CV RANKING BASED ON AHP
Evanthia Faliagka, Konstantinos Ramantas, Athanasios Tsakalidis, Manolis Viennas, Eleanna Kafeza and Giannis Tzimas

CLASSIFICATION AND MODELLING OF WEB TECHNOLOGIES
Mark Wallis, Frans Henskens and Michael Hannaford

XII
A DISTRIBUTED SELF-HEALING ARCHITECTURE SUPPORTING WS-BASED APPLICATIONS
Francisco Moo-Mena, Fernando Curi-Quintal, Juan Garcilazo-Ortiz, Luis Basto-Diaz and Roberto Koh-Dzul

XBRL AND THE MULTIDIMENSIONAL DATA MODEL
Ignacio Santos and Elena Castro

INTEGRATING ASYNCHRONOUS COMMUNICATION INTO THE OSGI SERVICE PLATFORM
Marc Schaaf, Volker Ahlers, Arne Koschel, Irina Astrova, Ahto Kalja, David Bosschaert and Roman Roelofsen

WEB INTERFACES AND APPLICATIONS

FULL PAPERS

ADDRESSING E-GOVERNMENT WEBSITE USABILITY - A Users’ Centred Evaluation
Zhao Huang and Laurence Brooks

OP2A - Assessing the Quality of the Portal of Open Source Software Products
Gabriele Basilico, Luigi Lavazza, Sandro Morasca, Davide Taibi and Davide Tosi

MANAGING USER INTERACTION IN AN ONTOLOGY-BASED SYSTEM
Anna Goy and Diego Magro

VIZGR - Combining Data on a Visual Level
Daniel Hienert, Benjamin Zapilko, Philipp Schaer and Brigitte Mathiak

EXPLORING MULTI-FACTOR TAGGING ACTIVITY FOR PERSONALIZED SEARCH
Frederico Durao, Ricardo Lage, Peter Dolog and Nilay Coskun

ACCESSIBILITY EVALUATION OF MOODLE CENTRED IN VISUAL IMPAIEMENTS
Rocio Calvo, Ana Iglesias and Lourdes Moreno

SHORT PAPERS

AN EVENT DISTRIBUTION PLATFORM FOR RECOMMENDING CULTURAL ACTIVITIES
Toon De Pessemier, Sam Coppens, Erik Mannens, Simon Dooms, Luc Martens and Kristof Geebelen

CONTENT-BASED RECOMMENDATION ALGORITHMS ON THE HADOOP MAPREDUCE FRAMEWORK
Toon De Pessemier, Kris Vanhecke, Simon Dooms and Luc Martens

INNOVATION MINING - Supporting Web Mining in Early Innovation Phases
Jan Finzen and Maximilien Kintz

QUALITY ASSESSMENT OF WIKIPEDIA EXTERNAL LINKS
Paraskevi Tzekou, Sofia Stamou, Nikos Kirtsis and Nikos Zotos

BIODIVERSITY INFORMATION SYSTEMS USING GEOREFERENCING AND PHYSICAL IDENTIFICATION
Tiago Lira, Cristina Ribeiro and João Correia Lopes

THE STONE AGE IS BACK - HCI Effects on Recommender Systems
Yuval Dan-Gur
IMPROVING HOW USERS ORGANIZE WEB INFORMATION FOR GATHERING TASKS
Anwar Alhenshiri, Michael Shepherd and Carolyn Waters

ONLINE WEB GENRE CLASSIFICATION, IS IT DOABLE?
Hoda Badesh, James Blustein and Anwar Alhenshiri

A MULTILEVEL UML CONCEPT BASED SEARCHING AND RANKING
E. Umamaheswari, T. V. Geetha, Ranjani Parthasarathi and Madhan Karky

MANAGING MULTIMODAL AND MULTILINGUAL SEMANTIC CONTENT
Michael Martin, Daniel Gerber, Norman Heino, Sören Auer and Timofey Ermilov

TAG CLOUDS FOR SITUATED INTERACTION AND PLACE PROFILING
Rui José, Bruno Silva and Fernando Reinaldo Ribeiro

NEWS RECOMMENDING BASED ON TEXT SIMILARITY AND USER BEHAVIOUR
Dušan Zeleník and Mária Bieliková

SEARCHING WEB 3.0 CONTENT - A Semantic Search Approach
Kinga Schumacher and Michael Sintek

BRIDGING NAVIGATION, SEARCH AND ADAPTATION - Adaptive Hypermedia Models
Evgeny Kmutov, Paul De Bra, David Smits and Mykola Pechenizkiy

ONTOCOMPO - An Ontology-based Interactive System to Compose Applications
Christian Brel, Anne-Marie Dery-Pinna, Catherine Faron-Zucker, Philippe Renevier-Gonin and Michel Riveill

AN OPEN, EXTENDABLE SERVICE PLATFORM FOR THE ELDERLY
Ingo Zinnikus, Christian Husodo-Schulz, Patrick Kapahnke and Darren Maughan

WEB SERVICE WRAPPING, DISCOVERY AND CONSUMPTION - More Power to the End-user
Ismael Rivera, Knud Hinneh Møller, Siegfried Handschuh and Albert Zündorf

SEARCH ENGINE RESULT PAGE WITH VISUAL CONTEXT AND ALREADY RENDERED SNIPPETS
Kazutaka Maruyama, Masato Igeta and Minoru Terada

SUPPORTING LEARNER MODEL EXCHANGE IN EDUCATIONAL WEB SYSTEMS
Eddie Walsh, Alexander O’Connor and Vincent Wade

WEB-BASED EXPLORATION OF TEMPORAL DATA IN BIOMEDICINE
Martin J. O’Connor, Mike Bingen, Amanda Richards, Samson W. Tu and Amar Das

A PERSONALIZED FORUM ENVIRONMENT
Anna Stavrianou and Magdalini Eirinaki

CONTENT-BOOSTED COLLABORATIVE FILTERING USING SEMANTIC SIMILARITY MEASURE
Uğur Ceylan and Aysenur Birturk

NAVIGATION ALONG DATABASE RELATIONSHIPS - An Adaptive Framework for Presenting Database Contents as Object Graphs
Ahmet Atili, Katja Nau and Andreas Schmidt
POSTERS

TOWARD REUSABILITY IN WEB MODELING - Using QVT Relations
Ali Fatolah, Stéphane S. Somé and Timothy C. Lethbridge 383

SALO - Sharable Auto-adaptive Learning Object
Ignacio Gutiérrez Menéndez, Mª del Puerto Paule Ruiz and Juan Ramón Pérez Pérez 387

AN ONLINE EVALUATION OF EXPLICIT FEEDBACK MECHANISMS FOR RECOMMENDER SYSTEMS
Simon Dooms, Toon De Pessenié and Luc Mariens 391

SCALESEM - Evaluation of Semantic Graph based on Model Checking
Mahdi Gueffaz, Sylvain Rampacek and Christophe Nicolle 395

A WEB-BASED TOOL FOR SPATIOTEMPORAL FILTERING AND CONTINUOUS ANIMATION
Alex Vakoulaoudis and Simeon Veloudis 399

AN ACCESSIBLE WEB-BASED INFORMATION BROADCASTING SYSTEM FOR BLIND PEOPLE
Hsiao-Ping Lee, Chien-Hsing Chen and Tsu-Fang Sheu 404

TOWARD THE CREATION OF A GREEN CONTENT MANAGEMENT SYSTEM
Matteo Ciman, Ombretta Gaggi and Marco Sbrignadello 408

FOUR ASPECTS OF RELEVANCE IN SHARING LOCATION-BASED MEDIA: CONTENT, TIME, LOCATION AND NETWORK
Pasi Frántti, Jinhua Chen and Andrei Tabarcea 413

REQUIREMENTS ENGINEERING OF WEB APPLICATION PRODUCT LINES
Hernán Casalánguida and Juan Eduardo Durán 418

FINDING AND REFINING WEB PAGES IN CONTEXT - A Tree-based Model of Web History
David Briffa and Chris Staff 426

ADAPTING WEB IMAGES FOR BLIND PEOPLE
A. Fazilah Misman and Peter Blanchfield 430

BIOPEN: A PROPOSED WEB APPLICATION FOR IMPLEMENTING THE BIOLOGICAL ELECTRONIC PROTOCOL SYSTEM OF ENTEROPATHOGENS CHARACTERIZATION - Personalized Web Sites and Services
Terumi Paula Bonfim Kamada, Danielle Forbeci Suzuki, Maicon Silva Costa, Leonardo Magalhaes Cruz and Luiz Antônio Pereira Neves 438

SOCIETY, E-BUSINESS AND E-GOVERNMENT

FULL PAPER

DEVELOPING A MODEL OF CITIZENS' PERCEPTION OF E-GOVERNMENT SYSTEM PERFORMANCE AND THEIR ATTAINED BENEFIT
Shatha Al-Haddad and Peter N. Hyland 447
SHORT PAPERS

POST-ADOPTION BEHAVIOUR, COMMUNITY SATISFACTION AND PCS - An Analysis of Interaction Effects in the Tuenti Community
Manuel J. Sánchez-Franco, Félix A. Martín-Velcia and Borja Sanz-Altamira

DATA PRIVACY IN WEB ANALYTICS - An Empirical Study and Declaration Model of Data Collection on Websites
Darius Zumstein, Aleksandar Drobnjak and Andreas Meier

UNDERSTANDING DETERMINANTS OF COMPLAINT INTENTIONS IN ONLINE SHOPPING - The Perspectives of Justice and Technology
Ing-Long Wu, Chi-Ying Huang and Chu-Ying Fu

APPLYING LOGISTIC REGRESSION TO RANK CREDIBILITY IN WEB APPLICATIONS
Rafael Lima and Adriano Pereira

SELF-ORGANIZATION OF VIRTUAL COMMUNITIES - Need and Members' Participation
Juliana de Melo Bezerra and Celso Massaki Hirata

CITIZEN CONTROLLED EXCHANGE OF INFORMATION IN E-GOVERNMENT
Helder Gomes, André Zuquete and Gonçalo Paiva Dias

POSTERS

INTERCULTURAL LEARNING AND COLLABORATION ASPECTS IN COMMUNITIES OF PRACTICE
Ileana Hamburg

SUPPLY INFORMATION VISIBILITY FROM SUBCONTRACTOR NETWORK TO MANUFACTURER TO DECREASE SUPPLY RISK
Salmela Erno and Happonen Ari

BLENDED SHOPPING - Evaluation Method and Interactive Approaches
Britta Fuchs, Thomas Ritz, Bastian Halbach and Florian Hartl

FACILITATING CONSTRUCTIVISM STUDY IN ONLINE MUSEUM VIA SOCIAL MEDIA
Cui Binyue and Yokoi Shigeki

COMMUNITY DRIVEN REQUESTS FOR PROPOSALS - Applying Semantics to Match Customer Purchase Intents to Vendor Offers
Christophe Debruyne, Davor Meersman, Mathias Baert and Rami Hansenne

CHARACTERISTICS OF TRUST IN ONLINE SOCIAL NETWORKS AND COMMUNITY OF TRUST AS A SPECIAL CASE OF ONLINE COMMUNITY
David Zejda

AGMI - AN AGENT-MINING TOOL AND ITS APPLICATION TO BRAZILIAN GOVERNMENT AUDITING
Carlos Vinícius Sarmento Silva and Célia Ghedini Ratha

WEB-BASED SYSTEM FOR AUTOMATICALLY COLLECTING INFORMATION ABOUT LOCATIONS OF VOLUNTEER ACTIVITIES OF CITIZEN GROUPS
Akira Hattori and Haruo Hayami

PUBLICATION AND REUSE OF OPEN GOVERNMENT DATA - A Practical Approach

XVI
WEB INTELLIGENCE

FULL PAPER

ENTROPY ON ONTOLOGY AND INDEXING IN INFORMATION RETRIEVAL
Yevgeniy Guseynov

SHORT PAPERS

EXPLOITING THE LANGUAGE OF MODERATED SOURCES FOR CROSS-CLASSIFICATION OF USER GENERATED CONTENT
Avaré Stewart and Wolfgang Nejdl

HOW INTEGRATE STRUCTURAL DIMENSION IN RELEVANCE FEEDBACK IN XML RETRIEVAL
Inès Kamoun Fourati, Mohamed Tmar and Abdelmajid Ben Hamadou

ORGANOGRAPHS - Multi-faceted Hierarchical Categorization of Web Documents
Rodrigo Dias Arruda Senra and Claudia Bauzer Medeiros

CLASSIFYING WEB PAGES BY GENRE - Dealing with Unbalanced Distributions, Multiple Labels and Noise
Jane E. Mason, Michael Shepherd, Jack Duffy and Vlado Keselj

POSTERS

A SIMPLE METHOD FOR MINING AND VISUALIZING COMPANY RELATIONS BASED ON WEB SOURCES
Maximilien Kintz and Jan Finzen

EVALUATION OF COLLABORATIVE FILTERING ALGORITHMS USING A SMALL DATASET
Fabio Roda, Leo Liberti and Franco Raimondi

FREQUENCY OF SENTENTIAL CONTEXTS VS. FREQUENCY OF QUERY TERMS IN OPINION RETRIEVAL
Sylvester Olubohu Orimaye, Saadat M. Alhashmi and Siew Eu-Gene

SPECIAL SESSION ON WEB SERVICES PRINCIPLES AND APPLICATIONS

FULL PAPER

SIMULATING WEB SERVICES TRANSACTIONS
David Paul, Frans Henskens and Michael Hannaford

SHORT PAPERS

CLOSING THE GAP BETWEEN WEB APPLICATIONS AND WEB SERVICES
Marc Jansen

DESIGN AND IMPLEMENTATION OF AN INTEGRATED WEB SERVICE ARCHITECTURE
Alina Andreica, Daniel Stuparu, Romulus Gadi, Florina Covaci, Cosmin Tarța, Grigorie Bogdan Mărcuș, Gabriel Pop and Ovidiu Teodorescu

XVII
Poster

A WEB APPLICATION FOR MAKING MOSAIC ART IMAGES
Tefen Lin, Jie Wang, Pei-Yu Huang, Yan-Ping Tung, Hsiao-Yun Huang and Kai-Wen Yu 641

SPECIAL SESSION ON SEMANTIC WEB APPLICATIONS AND TOOLS

Full Paper

SEMANTIC WEB BASED PROACTIVE SEARCH FOR ENTERPRISE
Li Li, Feng Liu and Wu Chou 649

Short Paper

AN ONTOLOGY-BASED APPROACH TO PROVIDE PERSONALIZED RECOMMENDATIONS USING A STOCHASTIC ALGORITHM
Romain Picot-Clément, Christophe Cruz and Christophe Nicolle 659

SPECIAL SESSION ON E-BUSINESS

Posters

HOW TO RETAIN CUSTOMERS OF IPTV - Interactivity, Trust, and Emotion
Geena Shin, Joongho Ahn and Taeha Kim 671

CONTENT ROAMING SERVICE - The Methodology of using Digital Content across Devices
Kyle Ko, Aircozy Chang, Jay Stu, Yuting Lin and Chuo-Yen Wang 677

SPECIAL SESSION ON WEB AND TEXT MINING

Full Papers

HOW STATISTICAL INFORMATION FROM THE WEB CAN HELP IDENTIFY NAMED ENTITIES
Mathieu Roche 685

CONCEPT-BASED CLUSTERING FOR OPEN-SOURCED SOFTWARE (OSS) DEVELOPMENT FORUM THREADS
Jonathan Jason C. King Li, Masanori Akiyoshi, Masaki Samejima and Norihisa Komoda 690

A CHARACTERIZATION METHODOLOGY OF EVOLUTIONARY BEHAVIOR IN RECOMMENDER SYSTEMS
Alan Cardoso, Daniel Rocha, Rafael Sachetto, Leonardo Rocha, Fernando Mourão and Wagner Meira Jr. 696

MINING NON-TAXONOMIC CONCEPT PAIRS FROM UNSTRUCTURED TEXT - A Concept Correlation Search Framework
Mei Kuan Wong, Syed Sibte Raza Abidi and Ian D. Jonsen 707

AUTHOR INDEX 717