List of Accepted Papers – As of 12/03/2011

Advances in Spatial and Image-based Information Systems Track

Track Co-Chairs: Richard Chbeir, University of Bourgogne, France
Christophe Claramunt, Ecole Navale, Brest, France
Ki-Joune Li, Pusan National University, Korea
Kokou Yetongnon, University of Bourgogne, France

A Method for Identification of Moving Objects by Integrative Use of a Camera and Accelerometers

Naoka Maruhashi, Kobe University, Japan
Tsutomu Terada, Kobe University, Japan
Masahiko Tsukamoto, Kobe University, Japan

History-independence: A Fresh Look at the Case of R-trees

Theodoros Tzouramanis, University of the Aegean, Greece

Representation and management of Spatiotemporal data in Object-Relational Databases

Luís Matos, IEETA - University of Aveiro, Portugal
José Moreira, IEETA/DETI - University of Aveiro, Portugal
Alexandre Carvalho, INESC/DEI – University of Porto, Portugal

Poster Papers

High Level Adaptive Fusion Approach: Application to Land Cover Change Prediction in Satellite Image Databases

Wadii Boulila, RIADI, ENSI, Tunisia
Karim Saheb Ettabaa, RIADI, ENSI, Tunisia
Imed Riadh Farah, RIADI, ENSI, Tunisia
Basel Solaiman, ITI, TELECOM-Bretagne, Tunisia

ST4SQL: A Query Language Dealing with Spatial and Temporal Granularities

Gabriele Pozzani, University of Verona, Italy
Carlo Combi, University of Verona, Italy

Bioinformatics Track

Track Co-Chairs: Dan Tulpan, National Research Council, Institute for Information Technology, Canada
Paola Lecca, The Microsoft Research, University of Trento, CoSBi, Italy
Ferenc Jordan, The Microsoft Research, University of Trento, CoSBi, Italy

Performance Evaluation of Medical Imaging Service

Eduardo Tavares, UFPE, Brazil
Joao Aleixo, UFPE, Brazil
Paulo Maciel, UFPE, Brazil
Dinaldo Oliveira, UFPE, Brazil
Elayne Heide, UFPE, Brazil
Rosana Araujo, UFPE, Brazil
Luna Maia, UFPE, Brazil
Ana Duarte, UFPE, Brazil
Marilia Novaes, UFPE, Brazil

Analyzing Incomplete Biological Pathways Using Network Motifs
Maya El Dayeh, Southern Methodist University, United States
Michael Hahsler, Southern Methodist University, United States

Parallelizing SuperFine
Diogo Telmo Neves, ESTFG - IPP and Universidade do Minho, Portugal
Tandy Warnow, University of Texas at Austin, United States
João Luís Sobral, Universidade do Minho, Portugal
Keshav Pingali, University of Texas at Austin, United States

Sorting Genomes Using Almost-Symmetric Inversions
Zanoni Dias, University of Campinas, Brazil
Ulisses Dias, University of Campinas, Brazil
Lenwood Heath, Virginia Tech, United States
Joao Setubal, Virginia Tech, United States

Relationship of Reproduction and Evolutionary Computation to Analytical Modeling of the Ecological Genetics of Inducible Defenses
Gloria Townsend, DePauw University, United States
Wade Hazel, DePauw University, United States
Benjamin Steffen, University of California Berkeley, United States

Computing Gene Functional Similarity Using Combined Graphs
Hisham Al-Mubaid, Univ of Houston, United States
Anurag Nagar, Univ of Houston, United States
Said Bettayeb, Univ of Houston, United States

Molecular Docking with Opposition-Based Differential Evolution
Mohamad Koohi Moghadam, Iran University of Science and Technology, Iran (Islamic Republic Of)
Adel Torkaman Rahmani, Iran University of Science and Technology, Iran (Islamic Republic of)

Probabilistic Prediction of Protein Phosphorylation Sites Using Kernel Machines
Mark Menor, University of Hawaii at Manoa, United States
Guylaine Poisson, University of Hawaii at Manoa, United States
Kyungim Baek, University of Hawaii at Manoa, United States

Minimum Multiple Characterization of Biological Data using Partially Defined Boolean Formulas
Fabien Chhel, University of Angers, LERIA, France
Adrien Goëffon, University of Angers, LERIA, France
Frédéric Lardeux, University of Angers, LERIA, France
Frédéric Saubion, University of Angers, LERIA, France

A Model for Drosophila Melanogaster Development from a Single Cell to Stripe Pattern Formation
Sara Montagna, ALMA MATER STUDIORUM-UNIVERSITA' DI BOLOGNA, Italy
Danilo Pianini, ALMA MATER STUDIORUM-UNIVERSITA' DI BOLOGNA, Italy
Mirko Viroli, ALMA MATER STUDIORUM-UNIVERSITA' DI BOLOGNA, Italy

CloudScale - a Novel Middleware for Building Transparently Scaling Cloud Applications

Philipp Leitner, Distributed Systems Group, TU Wien, Austria
Waldemar Hummer, Distributed Systems Group, TU Wien, Austria
Benjamin Satzger, Distributed Systems Group, TU Wien, Austria
Christian Inzinger, Distributed Systems Group, TU Wien, Austria
Schahram Dustdar, Distributed Systems Group, TU Wien, Austria

Private Data Deduplication Protocols in Cloud Storage

Wee Keong Ng, NTU, Singapore
Yonggang Wen, NTU, Singapore
Huafei Zhu Zhu, NTU, Singapore

Feasibility of a Privacy Preserving Collaborative Filtering Scheme on the Google App Engine - a Performance Case Study

Anirban Basu, Tokai University, Japan
Jaideep Vaidya, Rutgers University, United States
Theo Dimitrakos, British Telecom, United Kingdom
Hiroaki Kikuchi, Tokai University, Japan

Entity Matching for Semistructured Data in the Cloud

Marcus Paradies, Ilmenau University of Technology, Germany
Susan Malaika, IBM, United States
Jerome Simeon, IBM, United States
Shahan Khatchadourian, University of Toronto, Canada
Kai-Uwe Sattler, Ilmenau University of Technology, Germany

Towards Building Large-Scale Distributed Systems for Twitter Sentiment Analysis

Vinh Khuc, The Ohio State University, United States
Chaitanya Shivade, The Ohio State University, United States
Rajiv Ramnath, The Ohio State University, United States
Jay Ramanathan, The Ohio State University, United States

A Policy-based Decentralized Authorization Management Framework for Cloud Computing

Dongwan Shin, New Mexico Tech, United States
Ying Wang, New Mexico Tech, United States
William Claycomb, CERT at CMU, United States

Poster Papers

A Layered Coordination Framework for Optimizing Resource Allocation in Adapting Cloud-based Applications

Patrizia Scandurra, Universita degli Studi di Bergamo, Italy
Claudia Raibulet, Universita degli Studi di Milano-Bicocca, Italy
Pasqualina Potena, Universita degli Studi di Bergamo, Italy
Raffaela Mirandola, Politecnico di Milano, Italy
Rafael Capilla, Universidad Rey Juan Carlos, Spain

Double Dip Map-Reduce for Processing Cross Validation Jobs

Danilo Moret, Globo.com, Brazil
Karin Breitman, PUC-Rio, Brazil
Jose Talavera, PUC-Rio, Brazil
Ruy Milidiu, PUC-Rio, Brazil

Jose Viterbo, UFF, Brazil
Evelin Amorim, PUC-Rio, Brazil

Computational Intelligence and Video & Image Analysis Track

Track Co-Chairs: Agostinho Rosa, Technical University of Lisbon, Portugal
Yin-Fu Huang, National Yunlin University of Science and Technology, Taiwan

Multilayer Fuzzy ARTMAP: Fast Learning and Fast Testing for Pattern Classification

Tatt Hee Oong, Universiti Sains Malaysia, Malaysia
Nor Ashidi Mat Isa, Universiti Sains Malaysia, Malaysia

An Application of Circumscribed Circle Filter in the Multi-Stencils Fast Marching Method

Hong Liu, Huazhong University of Science and Technology, China
Huaifei Hu, Huazhong University of Science and Technology, China
Enmin Song, Huazhong University of Science and Technology, China
Hung Chih-Cheng, Huazhong University of Science and Technology, China
Mali Yu, Huazhong University of Science and Technology, China

A Novel Segmentation Method for Convex Lesions Based on Dynamic Programming with Local Intra-Class Variance

Mali Yu, Huazhong University of Science and Technology, China
Renchao Jin, Huazhong University of Science and Technology, China
Hong Liu, Huazhong University of Science and Technology, China
Qiliang Huang, Second People's Hospital of Nanning, China
Enmin Song, Huazhong University of Science and Technology, China
Chih-Cheng Hung, Southern Polytechnic State University, United States

Rushes Video Summarization Based on Spatio-temporal Features

Tiago Oliveira Cunha, UFMG, Brazil
Flávio Souza, UFMG, Brazil
Arnaldo Araújo, UFMG, Brazil
Gisele Lobo Pappa, UFMG, Brazil

Poster Papers

Texture Fuzzy Segmentation using Adaptive Affinity Functions

Bruno Carvalho, UFRN, Brazil
Tiago Santos, UFRN, Brazil
Edgar Garduño, UNAM, Brazil

Effective Radical Segmentation of Offline Handwritten Chinese Characters by Using an Enhanced Snake Model and Genetic Algorithm

Zhanghui Chen, Institute of Semiconductors, Chinese Academy of Sciences, China
Baoyao Zhou, EMC Labs China,
Shan Dong, Chinese Academy of Sciences, China

Clustering Approach Algorithm for Image Interpolation

Tania Centeno, Federal University of Technology - Paraná, Brazil
Márcio Akyama, Federal University of Technology - Paraná, Brazil

Computer Security Track

Track Co-Chairs: Giampaolo Bella, Università di Catania, Italy
Helge Janicke, De Montfort University, United Kingdom
Alessandro Sorniotti, IBM Research Zurich, Switzerland

An Empirical Analysis of Input Validation Mechanisms in Web Applications and Languages

Theodoor Scholte, SAP Research, Germany
Davide Balzarotti, Institute Eurecom, France
William Robertson, Northeastern University, United States
Engin Kirda, Northeastern University, United States

A Security Analysis of Amazon's Elastic Compute Cloud Service

Marco Balduzzi, EURECOM, France
Jonas Zaddach, EURECOM, France
Davide Balzarotti, EURECOM, France
Engin Kirda, Northeastern University, United States
Sergio Loureiro, SecludIT, France

A Linux Kernel Cryptographic Framework: Decoupling Cryptographic Keys From Applications

Nikos Mavrogiannopoulos, Katholieke Universiteit Leuven, Belgium
Miloslav Trmac, Red Hat, United States
Bart Preneel, Katholieke Universiteit Leuven, Belgium

A Visualization Tool for Evaluating Access Control Policies in Facebook-style Social Network Systems

Mohd Anwar, University of Pittsburgh, United States
Philip Fong, University of Calgary, Canada

Collusion-Resistant Outsourcing of Private Set Intersection

Florian Kerschbaum, SAP Research, Germany

A Framework for Static Detection of Privacy Leaks in Android Applications

Christopher Mann, TU Darmstadt, Germany
Artem Starostin, TU Darmstadt, Germany

Indistinguishable Regions in Geographic Privacy

Jorge Cuellar, Siemens AG, Germany
Martín Ochoa, Siemens AG and TU Dortmund, Germany
Ruben Rios, University of Malaga, Spain

Barrier: A Lightweight Hypervisor For Protecting Kernel Integrity via Memory Isolation

Jingyu Hua, Kyushu University, Japan
Kouichi Sakurai, Kyushu University, Japan

Constroid: Data-Centric Access Control for Android

Daniel Schreckling, University of Passau, Germany
Joachim Posegga, University of Passau, Germany
Daniel Hausknecht, University of Passau, Germany

Integrity of Electronic Voting Systems: Fallacious Use of Cryptography

Seda Davtyan, University of Connecticut, United States
Aggelos Kiayias, University of Connecticut, United States
Laurent Michel, University of Connecticut, United States
Alexander Russell, University of Connecticut, United States
Alexander A. Shvartsman, University of Connecticut, United States

An Efficient Security Framework for Mobile WiMAX

Mete Rodoper, Winlab, Rutgers University, United States
Edward Jung, Southern Polytechnic State University, United States
Arati Baliga, AT&T Security Research Center, United States
Wade Trappe, Winlab, Rutgers University, United States

Guiding Decisions on Authorization Policies: A Participatory Approach to Decision Support

Steffen Bartsch, TZI, Universität Bremen, Germany
M. Angela Sasse, University College London, United Kingdom

Constraint Solving and Programming Track

Track Co-Chairs: Stefano Bistarelli, Università di Perugia, Italy and IIT-CNR, Pisa, Italy
Eric Monfroy, UTFSM, Valparaiso, Chile and LINA, Nantes, France, Chile
Barry O'Sullivan, University College Cork, Ireland

On the Complexity of Temporal Controllabilities for Workflow Schemata

Carlo Combi, University of Verona, Italy
Roberto Posenato, University of Verona, Italy

Solving Non-Linear Arithmetic Constraints in Soft Realtime Environments

Hendrik Skubch, University of Kassel, Germany

Solution Neighbourhoods for Constraint-Directed Local Search

Jun He, Uppsala University, Sweden
Pierre Flener, Uppsala University, Sweden
Justin Pearson, Uppsala University, Sweden

Combinatorial Problem Solving over Relational Databases: View Synthesis through Constraint-Based Local Search

Toni Mancini, Sapienza University, Italy
Pierre Flener, Uppsala University, Sweden
Justin K. Pearson, Uppsala University, Sweden

Partition Refinement for Bisimilarity in CCP

Andres Aristizabal, DGA-CNRS, France
Filippo Bonchi, CNRS and LIP, ENS-LYON, France
Luis Fernando Pino, DGA-INRIA, France
Frank D. Valencia, CNRS, France

Real Solution Formulas of Cubic and Quartic Equations Applied to Generate Dynamic Diagrams with Inequality Constraints

Ting Zhao, Beihang University & Laboratoire d'Informatique de Paris 6, China

Dongming Wang, Laboratoire d'Informatique de Paris 6, China
Hoon Hong, North Carolina State University, United States
Philippe Aubry, Laboratoire d'Informatique de Paris 6, France

Decomposition of Geometrical Constraint Systems with Reparameterization

Mathis Pascal, LSIIT, France
Schreck Pascal, LSIIT, France
Imbach Rémi, LSIIT, France

Poster Papers

Yet Another Algorithm for Generalized Voronoi Diagrams

Ioannis Emiris, University of Athens, Greece
Angelos Mantzaflaris, GALAAD, INRIA Méditerranée, France
Bernard Mourrain, GALAAD, INRIA Méditerranée, France

Cooperative Systems in Heterogeneous Environments Track

Track Co-Chairs: Rachid Anane, Coventry University, United Kingdom
David Parker, Oxford University, United Kingdom

Dependency-based Automatic Locking for Semantic Conflict Prevention in Real-Time Collaborative Programming

Hongfei Fan, Nanyang Technological University, Singapore
Chengzheng Sun, Nanyang Technological University, Singapore

Testing the Reliability of Web Services Transactions in Cooperative Applications

Rubén Casado, University of Oviedo, United Kingdom
Javier Tuya, University of Oviedo, United Kingdom
Muhammad Younas, Oxford Brookes University, United Kingdom

Mechanism Design for Decentralized Vehicle Routing Problem

Mohammed Saleh, Concordia University, Canada
Andrei Soeanu, Concordia University, Canada
Sujoy Ray, Concordia University, Canada
Mourad Debbabi, Concordia University, Canada
Jean Berger, Defence Research & Development Canada-Valcartier, Canada
Abdeslem Boukhtouta, Defence Research & Development Canada-Valcartier, Canada

Multi-Agent Framework for Real-Time Processing of Large and Dynamic Search Spaces

John Korah, University of Texas at El Paso, United States
Eunice Santos, University of Texas at El Paso,
Eugene Santos Jr, Dartmouth College, United States

Poster Papers

Using Ontology-Based Methods for Implementing Role-Based Access Control in Cooperative Systems

Satyajeet Raje, The Ohio State University, United States
Chowdary Davuluri, The Ohio State University, United States
Michael Freitas, The Ohio State University, United States
Rajiv Ramnath, The Ohio State University, United States
Jay Ramanathan, The Ohio State University, United States

An Ontological Basis for Resource Representation

Yves Wautelet, Hogeschool-Universiteit Brussel, Belgium
Samedi Heng, Université catholique de Louvain, Belgium
Manuel Kolp, Université catholique de Louvain, Belgium

Coordination Models, Languages and Applications Track

Track Co-Chairs: Mirko Viroli, Alma Mater Studiorum, Università di Bologna, Italy
Gabriella Castelli, Università di Modena e Reggio Emilia, Italy
Jose Luis Fernandez Marquez, Artificial Intelligence Research Institute, Spain

Dreams: A Framework for Distributed Synchronous Coordination

José Proença, K.U.Leuven, Belgium
Dave Clarke, K.U.Leuven, Belgium
Erik de Vink, TUE, Netherlands
Farhad Arbab, CWI, Netherlands

Programming Urban-area Applications

Dries Harnie, Vrije Universiteit Brussel, Belgium
Elisa Gonzalez Boix, Vrije Universiteit Brussel, Belgium
Wolfgang De Meuter, Vrije Universiteit Brussel, Belgium
Theo D'Hondt, Vrije Universiteit Brussel, Belgium

Modeling Adaptation with a Tuple-based Coordination Language

Edmond Gjondrekaj, Università degli Studi di Firenze, Italy
Michele Loreti, Università degli Studi di Firenze, Italy
Rosario Pugliese, Università degli Studi di Firenze, Italy
Francesco Tiezzi, IMT, Institute for Advanced Studies, Lucca, Italy

Passive Conformance Testing of Service Choreographies

Huu Nghia Nguyen, LRI and Université Paris-Sud, France
Pascal Poizat, LRI and Université d'Evry, France
Fatiha Zaïdi, LRI and Université Paris-Sud, France

A Buchi Automata Based Model Checking Framework for Reo Connectors

Sarmen Keshishzadeh, Sharif University of Technology, Iran (Islamic Republic Of)
Mohammad Izadi, Sharif University of Technology, Iran (Islamic Republic of)
Ali Movaghar, Sharif University of Technology, Iran (Islamic Republic of)

Expressing Global Priorities by Best-matching

Igor Cappello, DISI, University of Trento, Italy
Paola Quaglia, DISI, University of Trento, Italy

Poster Papers

A Secure Coordination of Agents with Nonmonotonic Soft Concurrent Constraint Programming

Stefano Bistarelli, Università di Perugia, Italy
Paola Campli, Università G. d'Annunzio, Italy
Francesco Santini, Università di Perugia, Italy

Instance-aware Assemblies of Services in Pervasive Computing

Linus Åkesson, Lund University, Sweden
Sven Gestegård Robertz, Lund University, Sweden
Görel Hedin, Lund University, Sweden
Boris Magnusson, Lund University, Sweden

Dynamic Composition of Coordination Abstractions for Pervasive Systems: The Case of LogOp

Ronaldo Menezes, Florida Institute of Technology, United States
Andrea Omicini, Alma Mater Studiorum-Università di Bologna, Italy
Mirko Viroli, Alma Mater Studiorum-Università di Bologna, Italy

A Coordination-Based Access Control Model for Space-Based Computing

Stefan Craß, Vienna University of Technology, Austria
eva Kühn, Vienna University of Technology, Austria

Data Mining Track

Track Co-Chairs: Hasan Jamil, Wayne State University, United States
                         Raymond Wong, University of New South Wales, Australia

Towards an Automatic Construction of Contextual Attribute-Value Taxonomies

Dino Ienco, CEMAGREF, France
Yoann Pitarch, LIRMM, France
Pascal Poncelet, LIRMM, France
Maguelonne Teisseire, CEMAGREF, France

A Constraint-based Language for Declarative Pattern Discovery

Jean-Philippe Métivier, Greyc (CNRS 6072) - University of Caen, France
Patrice Boizumault, Greyc (CNRS 6072) - University of Caen, France
Bruno Crémilleux, Greyc (CNRS 6072) - University of Caen, France
Mehdi Khiari, Greyc (CNRS 6072) - University of Caen, France
Samir Loudni, Greyc (CNRS 6072) - University of Caen, France

A Study of Top-K Measures for Discrimination Discovery

Dino Pedreschi, University of Pisa, Italy
Salvatore Ruggieri, University of Pisa, Italy
Franco Turini, University of Pisa, Italy

A Model for Mining Relevant and Non-redundant Information

Laura Langohr, University of Helsinki, Finland
Hannu Toivonen, University of Helsinki, Finland

Discovering Missing Links in Networks Using Vertex Similarity Measures

Hung-Hsuan Chen, The Pennsylvania State University, United States
Liang Gou, The Pennsylvania State University, United States
Xiaolong Zhang, The Pennsylvania State University, United States
C. Lee Giles, The Pennsylvania State University, United States

Semi-supervised Document Clustering with Dual Supervision through Seeding

Yeming Hu, Dalhousie University, Canada

Evangelos Milios, Dalhousie University, Canada
James Blustein, Dalhousie University, Canada

Mining Usage Patterns from a Repository of Scientific Workflows

Claudia Diamantini, Università Politecnica delle Marche, Italy
Domenico Potena, Università Politecnica delle Marche, Italy
Emanuele Storti, Università Politecnica delle Marche, Italy

Hidden Markov Model-Based Time Series Prediction Using Motifs for Detecting Inter-Time-Serial Correlations

Tim Schlüter, Heinrich Heine University, Germany
Stefan Conrad, Heinrich Heine University, Germany

Maximum Common Subgraph Based Locally Weighted Regression

Madeleine Seeland, Technische Universität München, Germany
Fabian Buchwald, Technische Universität München, Germany
Stefan Kramer, Johannes Gutenberg-Universität Mainz, Germany
Bernhard Pfahringer, The University of Waikato, New Zealand

Context-Aware Role Mining for Mobile Service Recommendation

Jian Wang, Wuhan University, China
Cheng Zeng, Wuhan University, China
Chuan He, Wuhan University, China
Liang Hong, Wuhan University, China
Liang Zhou, Wuhan University, China
Raymond Wong, University of New South Wales, Australia
Jilei Tian, Nokia Research Center, Finland

Multi-Label Classification Using Boolean Matrix Decomposition

Jörg Wicker, Johannes Gutenberg-Universität Mainz, Germany
Bernhard Pfahringer, The University of Waikato, New Zealand
Stefan Kramer, Johannes Gutenberg-Universität Mainz, Germany

A People-to-People Recommendation System using Tensor Space Models

Sangeetha Kutty, QUT, Australia
Lin Chen, QUT, Australia
Richi Nayak, QUT, Australia

CCDR-PAID: More Efficient Cache-Conscious PAID Algorithm by Data Reconstruction

Yuki Matsubara, Nara Institute of Science and Technology, Japan
Jun Miyazaki, Nara Institute of Science and Technology, Japan
Goshiro Yamamoto, Nara Institute of Science and Technology, Japan
Yuki Uranishi, Nara Institute of Science and Technology, Japan
Sei Ikeda, Nara Institute of Science and Technology, Japan
Hirokazu Kato, Nara Institute of Science and Technology, Japan

A New Class of Constraints for Constrained Frequent Pattern Mining

Carson Kai-Sang Leung, University of Manitoba, Canada
Lijing Sun, University of Manitoba, Canada

Joint Sentiment Aspect Model
Noriaki Kawamae, Tokyo Denki University, Japan

Poster Papers

An Empirical Evaluation of Process Mining Algorithms based on Structural and Behavioral Similarities
Jianmin Wang, Tsinghua University, China
Shijie Tan, Tsinghua University, China
Lijie Wen, Tsinghua University, China
Raymond Wong, University of New South Wales, Australia
Haiping Zha, Institute of Specifications and Standards, China

A Common Neighbour based Two-way Collaborative Recommendation Method
Lin Chen, Queensland University of Technology, Australia
Richi Nayak, QUT, Australia
Yue Xu, QUT, Australia

Hierarchical Confidence-based Active Clustering
Bruno Nogueira, University of Sao Paulo, Brazil
Alípio Jorge, University of Porto, Portugal
Solange Rezende, University of Sao Paulo, Brazil

Data Streams Track
Track Co-Chairs: Pedro Rodrigues, University Porto, Portugal
Albert Bifet, University Porto, Portugal
Shonali Krishnaswamy, Monash University, Australia
João Gama, LIAAD-University Porto, Portugal

Very Fast Decision Rules for Multi-class Problems
Petr Kosina, LIAAD-INESC Porto, Portugal
Joao Gama, LIAAD-INESC Porto, Portugal

Real-Time Visual Analytics for Event Data Streams
Fabian Fischer, University of Konstanz, Germany
Florian Mansmann, University of Konstanz, Germany
Daniel A. Keim, University of Konstanz, Germany

Discovering Global and Local Bursts in a Stream of News
Max Zimmermann, Otto-von-Guericke-University Magdeburg, Germany
Irene Ntoutsi, Ludwig-Maximilians-Universität München, Germany
Zaigham Faraz Siddiqui, Otto-von-Guericke-University Magdeburg, Germany
Myra Spiliopoulou, Otto-von-Guericke-University Magdeburg, Germany
Hans-Peter Kriegel, Ludwig-Maximilians-Universität München, Germany

Revisiting Formal Ordering in Data Stream Querying
Loïc Petit, France Telecom, Grenoble University, France
Claudia Roncancio, Grenoble University, France
Cyril Labbé, Grenoble University, France

Discovering Activity Interactions in a Single Pass over a Video Stream

Omar U. Florez, Utah State University, United States
Curtis Dyreson, Utah State University, United States

Poster Papers

Trend Cluster based Interpolation Everywhere in a Sensor Network

Pietro Guccione, Politecnico di Bari, Italy
Anna Ciampi, Università degli Studi di Bari "Aldo Moro", Italy
Annalisa Appice, Università degli Studi di Bari "Aldo Moro", Italy
Donato Malerba, Università degli Studi di Bari "Aldo Moro", Italy
Angelo Muolo, Rodonea s.r.l, Italy

Improving the Offline Clustering Stage of Data Stream Algorithms in Scenarios with Variable Number of Clusters

Elaine Faria, University of São Paulo, Brazil
Rodrigo Barros, University of São Paulo, Brazil
André Carvalho, University of São Paulo, Brazil
João Gama, University of Porto, Portugal

To Be or Not To Be Real: Fractal Analysis of Data Streams from a Regional Climate Change Model

Santiago Nunes, University of São Paulo, Brazil
Luciana Romani, Embrapa Agriculture Informatics, Brazil
Priscila Coltri, University of Campinas, Brazil
Ana Avila, University of Campinas, Brazil
Sin Chou, CPTEC/INPE, Brazil
Caetano Traina, University of São Paulo, Brazil
Agma Traina, University of São Paulo, Brazil
Elaine Sousa, University of São Paulo, Brazil

Database Theory, Technology and Applications Track

Track Co-Chairs: Junping Sun, Nova Southeastern University, United States
                Haraty Ramzi A., Lebanese American University, Lebanon
                Apostolos Papadopoulos, Aristotle University, Greece

C-Mapping: A Flexible XML-RDB Mapping Method based on Functional and Inclusion Dependencies

Sosuke OTA, Univ. of Tsukuba, Japan
Atsuyuki MORISHIMA, Univ. of Tsukuba, Japan
Toshiyuki AMAGASA, Univ. of Tsukuba, Japan
Norihide SHINAGAWA, Univ. of Tsukuba, Japan

Attribute Implications in Similarity-Based Databases: Semantic Entailment and Nonredundant Bases

Radim Belohlavek, Palacky University, Olomouc, Czech Republic
Vilem Vychodil, Palacky University, Olomouc, Czech Republic

SART: Dynamic P2P Query Processing in Sensor Networks with probabilistic guarantees

Spyros Sioutas, Ionian University, Greece
Alexandros Panaretos, Ionian University, Greece
Ioannis Karydis, Ionian University, Greece
Dimitrios Tsoumakos, Ionian University, Greece

DREAM: A Distributed fRamework for customized dEployment of a vAriety of indexing engines over Million-node overlays

Evangelos Sakkopoulos, University of Patras, Greece
Spyros Sioutas, Ionian University, Greece
George Papaloukopoulos, University of Patras, Greece
Alexandros Panaretos, Ionian University, Greece
Dimitrios Tsoumakos, Ionian University, Greece
Anastasia Saltou, University of Patras, Greece

Reference Table Based k-Anonymous Private Blocking

Alexandros Karakasidis, University of Thessaly, Greece
Vassilios S. Verykios, Hellenic Open University, Greece

Model Management System vs. Model Driven Engineering: a Case Study

Verónica A. Bollati, Universidad Rey Juan Carlos, Spain
Paolo Atzeni, Universidad Roma Tre, Italy
Juan Manuel Vara, Universidad Rey Juan Carlos, Spain
Esperanza Marcos, Universidad Rey Juan Carlos, Spain

GPU Accelerated AES-CBC for Database Applications

Scott Fazackerley, UBC Okanagan, Canada
Steven McAvoy, UBC Okanagan, Canada
Ramon Lawrence, UBC Okanagan, Canada

Minimum Bounding Boxes for Regular Cross-Polytopes

Salman Shahid, Michigan State University, United States
Sakti Pramanik, Michigan State University, United States
Charles Owen, Michigan State University, United States

Poster Papers

Metrics for Approximate Query Engine Evaluation

Francesco Di Tria, Università degli Studi di Bari Aldo Moro, Italy
Ezio Lefons, Università degli Studi di Bari Aldo Moro, Italy
Filippo Tangorra, Università degli Studi di Bari Aldo Moro, Italy

An Active XML-based Framework for Integrating Complex Data

Rashed Salem, Université de Lyon (ERIC - Lyon2), France
Omar Boussaid, Université de Lyon (ERIC - Lyon2), France
Jérôme Darmont, Université de Lyon (ERIC - Lyon2), France

Autonomous Re-indexing

Eduardo Morelli, Departamento de Informática, PUC-Rio, Brazil
José Maria Monteiro, Universidade Federal do Ceará - UFC, Brazil
Ana Carolina Almeida, Departamento de Informática, PUC-Rio, Brazil
Sérgio Lifschitz, Departamento de Informática, PUC-Rio, Brazil
Javam Machado, Universidade Federal do Ceará - UFC, Brazil

Dependable and Adaptive Distributed Systems Track

Track Co-Chairs: Karl M. Goeschka, Vienna University of Technology, Austria
Svein Hallsteinsen, Sintef, Norway
Rui Oliveira, Universidade do Minho, Portugal
Alexander Romanovsky, University of Newcastle, United Kingdom

Formal Verification of Unreliable Failure Detectors in Partially Synchronous Systems

Muhammad Atif, Eindhoven University of Technology, Netherlands
Mohamamd Reza Mousavi, Eindhoven University of Technology, Netherlands
Ammar Osaiweran, Eindhoven University of Technology, Netherlands

Using Constraint-based Optimization and Variability to Support Continuous Self-Adaptation

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Timeout-based Adaptive Consensus: Improving Performance through Adaptation

Mônica Dixit, University of Lisboa, Portugal
Henrique Moniz, University of Lisboa, Portugal
António Casimiro, University of Lisboa, Portugal

DRAP: A Robust Authentication Protocol to Ensure Survivability of Computational RFID Networks

Farzana Rahman, Marquette University, United States
Sheikh Ahamed, Marquette University, United States

Non-Intrusive Policy Optimization for Dependable and Adaptive Service-Oriented Systems

Christian Inzinger, Vienna University of Technology, Austria
Benjamin Satzger, Vienna University of Technology, Austria
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Philipp Leitner, Vienna University of Technology, Austria
Schahram Dustdar, Vienna University of Technology, Austria

FTRMI: Fault-tolerant Transparent RMI

Diogo Reis, University of Lisbon - LaSIGE, Portugal
Hugo Miranda, University of Lisbon - LaSIGE, Portugal

Document Engineering Track

Track Chair: Rafael Lins, Universidade Federal de Pernambuco, Brazil

Restoration of Motion Blurred Document Images

Bolan Su, National University of Singapore, Singapore
Shijian Lu, Institute for Infocomm Research, Singapore
Chew Lim Tan, National University of Singapore, Singapore

Assessing Handwitten Digit Segmentation Algorithms

Felipe Ribas, PUCPR, Brazil
Luiz Oliveira, UFPR, Brazil
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Affine Invariant Shape Matching Using Radon Transform and Dynamic Time Warping Distance

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Multi-document Summarization Exploiting Frequent Itemsets

Elena Baralis, Politecnico di Torino, Italy
Luca Cagliero, Politecnico di Torino, Italy
Alessandro Fiori, Politecnico di Torino, Italy
Saima Jabeen, Politecnico di Torino, Italy

An Information Extraction System from Patient Historical Documents

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Ergina Kavallieratou, University of the Aegean, Greece

Poster Papers

Row Manipulation in the Heterogeneous Tabular Forms with a Hexadecimal Grid Graph Model

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Kenshi Nomaki, Nihon University, Japan
Yuki Shindo, Nihon University, Japan
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Embedded Systems Track

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TL-Tree: Flash-Optimized Storage for Time-Series Sensing Data on Sensor Platforms

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Dong Liang, Beihang University, China
Lihui Xie, Beihang University, China
Gong Zhang, CMU, United States
Krithi Ramamritham, IIT Bombay, India

On Using Adversary Simulators to Obtain Tight Lower Bounds for Response Times

Rômulo Silva de Oliveira, UFSC, Brazil
Andreu Carminati, UFSC, Brazil
Renan Augusto Starke, UFSC, Brazil

Using Model Driven Engineering to Reliably Accelerate Early Low Power Intent Exploration for a System-on-Chip Design

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Alain PEGATOQUET, University of Nice-Sophia Antipolis-CNRS, France
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Affinity-aware DMA Buffer Management for Reducing Off-chip Memory Access

Qi Zhong, Peking University, China
Xuetao Guan, Peking University, China
Tao Huang, Peking University, China
Xu Cheng, Peking University, China
Keyi Wang, Peking University, China

A Semi-partitioned Real-time Scheduling Approach for Periodic Task Systems on Multicore Platforms

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Cécile Belleudy, LEAT, University of Nice-Sophia Antipolis, France
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STM Concurrency Control for Multicore Embedded Real-Time Software: Time Bounds and Tradeoffs

Mohammed Elshambakey, Virginia Tech, United States
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HotDataTrap: A Sampling-based Hot Data Identification Scheme for Flash Memory

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David H.C. Du, University of Minnesota, United States
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Thermal-aware Real-Time Task Scheduling for Three-dimensional Multicore Chip

Ting-Hao Tsai, National Taiwan University of Science and Technology, Taiwan
Ya-Shu Chen, National Taiwan University of Science and Technology, Taiwan

An Animation Framework for Improving the Comprehension of TinyOS Programs

Sravanthi Dandamudi, Clemson University, United States
Sally K. Wahba, Clemson University, United States
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Kernel-Level ARINC 653 Partitioning for Linux

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Using Faults for Buffer Overflow Effects

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Delphine Leresteux, DGA Information Superiority, France
Frédéric Valette, DGA Information Superiority, France

Formal Security Policy Models for Smart Card Evaluations

Gerd Beuster, Fachhochschule Wedel, Germany
Karin Greimel, NXP Semiconductors Austria GmbH, Germany

PRAM Wear-Leveling Algorithm for Hybrid Main Memory Based on Data Buffering, Swapping, and Shifting

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Dong-Jae Shin, KAIST, Republic of Korea
Kyu Ho Park, KAIST, Republic of Korea

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A Software Development Kit to Implement Integration Solutions

Rafael Z. Frantz, UNIJUÍ University, Brazil
Rafael Corchuelo, University of Seville, Spain

Enabling Personalized Visualization of Large Business Processes through Parameterizable Views

Manfred Reichert, Ulm University, Germany
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Extending Enterprise Architecture Modeling Languages: Application to Telecommunications Service Creation

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Security and Safety of Assets in Business Processes

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The Role of Editor in Collaborative Modeling

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Knowledge compilation for Automated Team Composition exploiting standard SQL

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On the Support for the Assignment of Active Structure and Behavior in Enterprise Modeling Approaches

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Mapping the Business Model Canvas to ArchiMate

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Keeping Decisions and Rationale Explicit in Business Process Analysis

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Can Business Process Modeling Bridge The Gap Between Business and Information Systems?

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Keletso Letsholo, The University of Manchester, United Kingdom
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Analysis of Heuristics to Identify Crosscutting Concerns in Business Process Models

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David Cairns, University of Stirling, United Kingdom

Boosting the Detection of Modular Community Structure with Genetic Algorithms and Local Search

Clara Pizzuti, ICAR-CNR, Italy

Stochastic Search for Global Neighbors Selection in Collaborative Filtering

Amine Boumaza, LISIC - Université du Littoral, France
Armelle Brun, LORIA - Nancy Université, France

Real-time Scheduling of Twin Stacking Cranes in an Automated Container Terminal using a Genetic Algorithm

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Analysis of a Triploid Genetic Algorithm over Deceptive Landscapes

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Seamus Hill, National University of Ireland Galway, Ireland
Colm O'Riordan, National University of Ireland Galway, Ireland

A Genetic Algorithm for Hierarchical Multi-Label Classification

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Artificial Immune Systems: Models, Applications, and Challenges

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Reda A. Ammar, University of Connecticut, United States
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A Two-level Procedure based on Genetic Algorithms to Optimize an Aeronautical Composite Structure

Leonardo Dagnino Chiwiacowsky, Universidade do Vale do Rio dos Sinos, Brazil
Paolo Gasbarri, Università di Roma "La Sapienza", Brazil
Riccardo Monti, Università di Roma "La Sapienza", Brazil
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Information Access and Retrieval Track

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Inverted File-based Indexing for Efficient Multimedia Information Retrieval in Metric Spaces

Daniel Blank, University of Bamberg, Germany
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A Consistency Rule for Graph Isomorphism Problem

Badreddine Benreguia, Abderrahmane Mira University, Bejaia, France
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Fine-Grained Topic Detection in News Search Results

Jia Cheng, Shanghai Jiao Tong University, China
Jingyu Zhou, Shanghai Jiao Tong University, China
Shuang Qiu, Shanghai Jiao Tong University, China

A Pilot Study for Mood-based Classification of TV Programmes

Jana Eggink, British Broadcasting Corporation (BBC), United Kingdom
Penelope Allen, British Broadcasting Corporation (BBC), United Kingdom
Denise Bland, British Broadcasting Corporation (BBC), United Kingdom

Towards Effective Group Recommendations for Microblogging Users

Ricardo Lage, Aalborg University, Denmark
Frederico Durao, Aalborg University, Denmark
Peter Dolog, Aalborg University, Denmark

Enhancing Semi-Supervised Document Clustering with Feature Supervision

Yeming Hu, Dalhousie University, Canada
Evangelos Milios, Dalhousie University, Canada
James Blustein, Dalhousie University, Canada

Investigations into User Rating Information and Predictive Accuracy in a Collaborative Filtering Domain

Josephine Griffith, National University of Ireland, Galway, Ireland
Colm O Riordan, National University of Ireland, Galway, Ireland
Humphrey Sorensen, University College Cork, Ireland

Uprising Microblogs: A Bayesian Network Retrieval Model for Tweet Search

Lamjed Ben Jabeur, IRIT, France
Lynda Tamine, IRIT, France
Mohand Boughanem, IRIT, France

Effective Web Video Clustering using Playlist Information

Mariko Kamie, University of Tsukuba, Japan
Takako Hashimoto, Chiba University of Commerce, Japan
Hiroyuki Kitagawa, University of Tsukuba, Japan

HMM-CARE: Hidden Markov Models for context-aware tag recommendation in Folksonomies

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Bilel Moulahi, Faculty of Sciences of Tunis, Tunisia
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A Comparison of Metadata Extraction Techniques for Crowdsourced Bibliographic Metadata Management

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Maya Hristakeva, Mendeley Ltd., United Kingdom
Robert Knight, Mendeley Ltd., United Kingdom
Kris Jack, Mendeley Ltd., United Kingdom

Corpus-Based Place Metadatabase Generation for Geocoding

Yoshihide Hosokawa, Gunma University, Japan

Intelligent Robotics Systems Track

Track Co-Chairs: Denis Wolf, University of Sao Paulo, Brazil
Fernando S. Osorio, University of Sao Paulo, Brazil
Luiz Chaimowicz, Federal University of Minas Gerais, Brazil

SageRobotics: Open Source Framework for Symbolic Computation of Robot Models
Cristóvão Sousa, University of Coimbra, Portugal
Rui Cortesão, University of Coimbra, Portugal

Multi-Fingered Reactive Grasping with Active Guided Camera Systems
Heinz Wörn, Karlsruhe Institute of Technologie, Germany
Stephan Irgenfried, Karlsruhe Institute of Technologie, Germany
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A Two-Level Approach for Multi-Robot Coordinated Exploration of Unstructured Environments
P.G. Chaminda Namal Senarathne, Nanyang Technological University, Singapore
Danwei Wang, Nanyang Technological University, Singapore

Vision and GPS-based Autonomous Vehicle Navigation Using Templates and Artificial Neural Networks
Jefferson Souza, University of São Paulo, Brazil
Gustavo Pessin, University of São Paulo, Brazil
Gustavo Buzogany, University of São Paulo, Brazil
Caio Mendes, University of São Paulo, Brazil
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An Integrated Architecture for Autonomous Vehicles Simulation
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Philos: A Sociable Robot for Human Robot Interactions and Wireless Health Monitoring
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Mobile Computing and Applications Track

Track Co-Chairs: Hong Va Leong, The Hong Kong Polytechnic University, Hong Kong, (China)
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Let EcoDrive be Your Guide: Development of a Mobile Tool to Reduce Carbon Footprint and Promote Green Transport
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Casey O'Brien, Marquette University, United States
Kristine Manning, Marquette University, United States
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Framework for Building Intelligent Mobile Social Applications

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João Bosco Ferreira Filho, Federal University of Ceara, Brazil
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Examining the Practical Challenges of an Augmented Reality Cyber-Infrastructure Framework

Chenjie Wei, The Ohio State University, United States
Chiu Ni Wang, The Ohio State University, United States
Rajiv Ramnath, The Ohio State University, United States
Jay Ramanathan, The Ohio State University, United States

Grid-based Cloaking Area Creation Scheme supporting Continuous Location-Based Services

Hyunjo Lee, Chonbuk National University, Republic Of Korea
Byeong-Seok Oh, Chonbuk National University, Republic of Korea
Hyeong-il Kim, Chonbuk National University, Republic of Korea
Jaewoo Chang, Chonbuk National University, Republic of Korea

A Sensor Network-based Multiple Acoustic Source Localization Algorithm

Junho Ahn, University of Colorado, United States
Hojung Cha, Yonsei University, Republic of Korea

An In-Network Approximate Data Gathering Algorithm Exploiting Spatial Correlation in Wireless Sensor Networks

Chen-Che Huang, National Chiao Tung University, Taiwan
Jiun-Long Huang, National Chiao Tung University, Taiwan
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A Distributed Intrusion Detection Scheme for Wireless Ad Hoc Networks

Anderson Morais, Telecom SudParis, France
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A Density-Aware Routing Scheme in Delay Tolerant Networks

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Query Execution on a Mobile Database System

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MobiSpatial: Open Source Enabled Mobile Spatial Interaction

Junjun Yin, Digital Media Centre, Ireland

James Carswell, Digital Media Centre, Ireland

Topological Inference Through Mobile Devices
Marco Paiva, University of Porto, Portugal
Marcelo Petry, University of Porto, Portugal
Rosaldo Rossetti, University of Porto, Portugal

Multimedia and Visualization Track

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Ethan Munson, University of Wisconsin-Milwaukee, United States
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A Compilation Technique to Increase X3D Performance and Safety
Giuseppe Maggiore, Universitá Ca' Foscari di Venezia, Italy
Mohamed Abbadi, Universitá Ca' Foscari di Venezia, Italy
Fabio Pittarello, Universitá Ca' Foscari di Venezia, Italy
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A Multimedia Recommender System based on Enriched User Profiles
Marcelo Manzato, University of Sao Paulo, Brazil
Rudinei Goularte, University of Sao Paulo, Brazil

Towards the Visualization of Software Systems as 3D Forests: the CodeTrees Environment
Ugo Erra, Università della Basilicata, Italy
Giuseppe Scanniello, Università della Basilicata, Italy

MINI - A 3D Mobile Image Browser with Multi-dimensional Datasets
Ai Gomi, Ochanomizu university, Japan
Takayuki Itoh, Ochanomizu university, Japan

Time-Aware Visualization of Document Collections
Aretha Barbosa Alencar, Universidade de São Paulo, Brazil
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Leonardo Antonio de Andrade, Universidade Federal de São Carlos, Brazil
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Image Retrieval Employing Genetic Dissimilarity Weighting and Feature Space Transformation Functions
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A Media-based Social Interactions Analysis Procedure

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Toward A Visual Pedometer

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Qi Shan, University of Washington, United States
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Scalable Depth Map Coding for 3D Video using Contour Information

Jimi Kang, Pusan National University, Republic Of Korea
Hyejeong Jeong, Pusan National University, Republic of Korea
Kidong Chung, Pusan National University, Republic of Korea

Evaluating Force-Directed Algorithms with a New Framework

Maolin Huang, University of Technology Sydney, Australia
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Networking Track

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Towards Optimizing the Reliability of Real-Time Transmission in Multi-hop Wireless LANs

Junwhan Kim, Virginia Tech, United States

Explicitly Accommodating Origin Preference for Inter-Domain Traffic Engineering

Rolf Winter, NEC Labs Europe, Germany
Iljitsch van Beijnum, IMDEA, Germany

msocket: Multiple Stack Support for the Berkeley Socket API

Renzo Davoli, University of Bologna, Italy
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Location Based Routing Using Smartphones in an Infrastructureless Environment

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Performance of MIMO 802.11n in Heterogeneous Deployments

Murad Abusubaih, Palestine Polytechnic University, Palestine
Mahmoud Ajloni, Palestine Polytechnic University, Palestine
Mahmoud Rajabi, Palestine Polytechnic University, Palestine
Fadel Shahin, Palestine Polytechnic University, Palestine

A Real-Time Data Aggregation Method for Fault-Tolerant Wireless Sensor Networks

Peyman Teymoori, University of Tehran, Iran (Islamic Republic Of)
Mehdi Kargahi, University of Tehran, Iran (Islamic Republic of)
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Automatic Creation of VPN Backup Paths for Improved Resilience against BGP-Attackers

Michael Grey, Ilmenau University of Technologies, Germany
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Spatio-Temporal Decomposition, Clustering and Identification for Alert Detection in System Logs

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Towards a Passive DNS Monitoring System

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Performance Analysis of IEEE 802.11 IBSS Power Save Mode using a Discrete-Time Markov Model

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Sandip Chakraborty, Indian Institute of Technology Guwahati, India
Sukumar Nandi, Indian Institute of Technology Guwahati, India
Purandar Bhaduri, Indian Institute of Technology Guwahati, India

S2S: A Peer to Peer Protocol for Participative Sensing

Paola Salomoni, University of Bologna, Italy
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Object Oriented Programming Languages and Systems Track

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Pattern-based Traits

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Jeremy Siek, University of Colorado at Boulder, United States

A Type System for Checking Specialization of Packages in Object-Oriented Programming

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Exploiting Regularity of User-Defined Types to Improve Precision of Program Analyses

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Operating Systems Track

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DADS: Dynamic and Automatic Disk Scheduling

Pilar Gonzalez-Ferez, Universidad de Murcia, Spain
Juan Piernas, Universidad de Murcia, Spain
Toni Cortes, Universitat Politecnica de Catalunya and Barcelona Supercomputing Center, Spain

Hypervisor-based Protection of Sensitive Files in a Compromised System

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Implementing Distributable Real-Time Threads in the Linux Kernel: Programming Interface and Scheduling Support

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Reducing Last Level Cache Pollution Through OS-Level Software-Controlled Region-Based Partitioning

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AAGC: An Efficient Associativity-Aware Garbage Collection Scheme for Hybrid FTLs

Bongjae Kim, Seoul National University, Republic Of Korea
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Yookun Cho, Seoul National University, Republic of Korea
Minkyu Park, Konkuk University, Republic of Korea
Chang Oan Sung, Indiana University Southeast, United States
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An Architecture-Based Framework for Developing Blog Crawlers

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Approximately Optimal Facet Selection

Sonya Liberman, CONTEXTin, Israel
Ronny Lempel, Yahoo! Labs, Israel

Towards an Automatic Evaluation of Web Applications

Leandro Guarino Vasconcelos, Federal University of Itajubá, Brazil
Laércio Augusto Baldochi, Federal University of Itajubá, Brazil

Process-Aware Continuation Management in Web Applications

Matthias Book, University of Duisburg-Essen, Germany
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Marco Buss, StoneOne AG, Germany

Poster Papers

Evolving and Validating Annotations in Web-based Collaborative Environments through Ontology Matching

Angela Locoro, Universita' di Genova, Italy
Viviana Mascardi, Universita' di Genova, Italy
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Resolving User Identities over Social Networks through Supervised Learning and Rich Similarity Features

André Nunes, Instituto Superior Técnico, Portugal
Pável Calado, Instituto Superior Técnico, Portugal
Bruno Martins, Instituto Superior Técnico, Portugal

Structure and Content of Wikipedia User Interaction

Asta Zelenkauskaite, Indiana University, Bloomington, United States
Paolo Massa, Fondazione Bruno Kessler, United States

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Mehdi Jazayeri, University of Lugano, Switzerland
Alexander Repenning, University of Colorado, United States

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Alessandro Inversini, University of Lugano, Switzerland
Leonardo Gentile, Politecnico di Milano, Italy