

## **AI and Computational Logic and Image Analysis (AI)**

Track Co-Chairs: C.C. Hung, School of Computing and Soft. Eng., USA  
Agostinho Rosa, LaSEEB –ISR – IST, Portugal

### **An Evidential Approach in Ensembles**

*Yaxin Bi, University of Ulster, UK*  
*Werner Dubitzky, University of Ulster, UK*

### **Solving First-Order Constraints in the Theory of Finite or Infinite Trees**

*Khalil Djelloul, Laboratoire d'Informatique Fondamentale de Marseille, France*  
*Thi-Bich-Hanh Dao, Laboratoire d'Informatique Fondamentale d'Orleans, France*

### **A Small-World Model of the Human Mind**

*Jose Luis Malaquias, University Coimbra, Portugal*  
*Agostinho Claudio da Rosa, ISR-LaSEEB, Portugal*  
*Carlos Maunel BA Correia, University Coimbra, Portugal*

### **Facial Emotion Recognition by Adaptive Processing of Tree Structures**

*Jia-Jun Wong, Nanyang Technological University, Singapore*  
*Siu-Yeung Cho, Nanyang Technological University, Singapore*

### **Adaptive Dynamic Run-length Coding for Image Segmentation**

*Sara Arasteh, Southern Polytechnic State University, USA*  
*Chih-Cheng Hung, Southern Polytechnic State University, USA*  
*Enmin Song, Huazhong University of Science and Technology, China*

### **On Handling Conflicts between Rules with Numerical Features**

*Tony Lindgren, Stockholm University and Royal Institute of Technology, Sweden*

## **Poster Papers**

### **A Quantitative Analysis of Implicational Paradoxes in Classical Mathematical Logic**

*Yuichi Goto, Saitama University*  
*Jingde Cheng, Saitama University*

### **Cooperative Active Contour Model and Its Application to Remote Sensing**

*Noriko Masumoto, Saitama University*  
*Norihiko Yoshido, Saitama University*  
*Shuji Narazaki, Saitama University*

## **Advances in Spatial and Image-based Information Systems (ASIS)**

Track Co-Chairs: Kokou Yetongnon, Bourgogne University, France  
Christophe Claramunt, Naval Academy Research Institute, France  
Richard Chbeir, Bourgogne University, France

### **Dynamic interactive spatial similarity retrieval in iconic image databases using enhanced digraph**

*Xiao Ming Zhou, Sybase Asia Development Center, Singapore*  
*Chuan Heng Ang, National University of Singapore, Singapore*  
*Tok Wang Ling, National University of Singapore, Singapore*

### **TerraCost: A Versatile and Scalable Approach to Computing Least-Cost-Path Surfaces for Massive Grid-Based Terrains**

*Tom Hazel, Bowdoin College, USA*  
*Laura Toma, Bowdoin College, USA*  
*Jan Vehrenhold, University of Munster, Germany*

*Rajiv Wickremesinghe, Duke University, USA*

### **Using Dijkstra's Algorithm to Incrementally Find the K-Nearest Neighbors in Spatial Network Databases**

*Victor Teixeira de Alameida, Germany*

*Ralf Hartmut Guting, Germany*

### **An Open Source and Web Based Framework for Geographic and Multidimensional Processing**

*Joel da Silva, Federal University of Pernambuco, Brazil*

*Valeria C. Times, Federal University of Pernambuco, Brazil*

*Ana Carolina Salgado, Federal University of Pernambuco, Brazil*

### **Efficient Processing of Past-Future Spatiotemporal Queries**

*Katerina Raptopoulou, Aristotle University, Greece*

*Michael Vassilakopoulos, Technological Educational Institute of Thessaloniki, Greece*

*Yannis Manolopoulos, Aristotle University, Greece*

### **Schemes for SR-Tree Packing**

*Jayendra Venkateswaran, University of Florida, USA*

*S.R. Subramanya, LG Electronics Mobile Research, USA*

### **Continuous Spatial Queries via Wireless Data Broadcast**

*KwangJin Park, Korea University, Korea*

*MoonBae Song, Korea University, Korea*

*Chong-Sun Hwang, Korea University, Korea*

### **Geographical Information Access for Non-Structured Data**

*Julien Lesbegueries, LIUPPA*

*Mauro Gao, LIUPPA*

*Pierre Loustau, LIUPPA*

## **Agents, Interactions, Mobility, and Systems (AIMS)**

Track Co-Chairs: Henry Hexmoor, University of Arkansas, USA

                  Marcin Paprzycki, Oklahoma State University, USA

                  Niranjan Suri, IHMC / University of West Florida, USA

### **Strong Agent Mobility for Aglets based on the IBM JikesRVM**

*Giacomo Cabri, University of Modena and Reggio Emilia*

*Luca Ferrari, University of Modena and Reggio Emilia*

*Letizia Leonardi, University of Modena and Reggio Emilia*

*Raffaele Quitadamo, University of Modena and Reggio Emilia*

### **Implementing Rule-based Mechanisms for Agent-based Price Negotiations**

*Costin Bădică, University of Craiova*

*Adriana Bădiță, University of Craiova*

*Maria Ganzha, Elblag University of Humanities and Econ*

*Alin Iordache, University of Craiova*

*Marcin Paprzycki, SWPS*

### **Management of Unspecified Semi-Structured Data in Multi-Agent Environment**

*Shlomo Berkovsky, University of Haifa*

*Yaniv Eytani, University of Haifa*

*Yosi Ben-Asher, Haifa University*

### **A Multi-Agent Algorithm for Vehicle Routing Problem with Time Windows**

*Hon Wai Leong, National University of Singapore*

*Ming Liu, National University of Singapore*

## **A Chat Interface for Human-Agent Interaction in MAST**

*Marco Carvalho, Institute for Human & Machine Cognition*

*Niranjan Suri, IHMC*

*James Horsley, Institute for Human & Machine Cognition*

*Matteo Rebeschini, Institute for Human & Machine Cognition*

## **A Distributed Stand-in Agent based Algorithm for Opportunistic Resource Allocation**

*Michal Pěchouček, Gerstner Laboratory, Czech Tech Univ*

*Marco Carvalho, Institute for Human & Machine Cognition*

*Petr Benda, Gerstner Laboratory, Czech Tech Univ*

*Pavel Jisl, Gerstner Laboratory, Czech Tech Univ*

*Niranjan Suri, Institute for Human & Machine Cognition*

## **Poster Papers**

### **A Space Aware Agent-based Modelling Process for the Study of Hierarchical Complex Systems**

*Christophe Lecerf, Ecole des Mines d'ALES*

*Thi Minh Luan Nguyen, Université Paris 8 et EPHE*

*Ivan Lavallée, Université Paris 8 et EPHE*

### **From Modeling to Enactment of Distributed Workflows: An Agent-based Approach**

*Giancarlo Fortino, University of Calabria*

*Wilma Russo, University of Calabria*

*Alfredo Garro, University of Calabria*

## **Bioinformatics (BIO)**

Track Co-Chairs: Mathew J. Palakal, Indiana University Purdue University, USA

William Perrizo, North Dakota State University, USA

### **Track Editorial**

#### **A Constraint Logic Programming Approach to 3D Structure Determination of Large Protein Complexes**

*Enrico Pontelli, New Mexico State University*

*Alessandro Dal Palu', University of Udine*

*Jing He, New Mexico State University*

*Yongang Lu, New Mexico State University*

#### **A Time-Dependent Extension of Gillespie Algorithm for Biochemical Stochastic $\pi$ -calculus**

*Paola Lecca, University of Trento – Italy*

#### **Two-phase Clustering Strategy for Gene Expression Data Sets**

*Dirk Habich, Dresden University of Technology*

*Thomas Wächter, Dresden University of Technology*

*Wolfgang Lehner, Dresden University of Technology*

*Christian Pilarsky, Dresden University of Technology*

#### **Efficient Discovery of Loosely Structured Motifs in Biological Data**

*Giorgio Terracina, Universita' della Calabria*

*Fabio Fassetti, Universita' della Calabria*

*Gianluigi Greco, Universita' della Calabria*

#### **PackageBLAST: An Adaptive Multi-Policy Grid Service for Biological Sequence Comparison**

*Alba Cristina M.A. Melo, University of Brasilia*

*Marcelo Sousa, University of Brasilia*

#### **Protein Classification Using Transductive Learning on Phylogenetic Profiles**

*Li Liao, University of Delaware*

*Roger Craig, University of Delaware*

### **MACE: Lossless Compression and Analysis of Microarray Images**

*Robert Bierman, San Francisco State University*

*Charles Parsons, University of Vermont*

*Rahul Singh, San Francisco State University*

*Nidhi Maniyar, San Francisco State University*

### **An Integrated Computational Proteomics Method to Extract Protein Targets for Fanconi Anemia Studies**

*Jake Yue Chen, IUPUI*

*Mu Wang, Indiana University*

*Changyu Shen, Indiana University*

*Sarah L. Pinkerton, Indiana University*

### **BioChain: Lexical Chaining Methods for Biomedical Text Summarization**

*Lawrence Reeve, Drexel University*

*Ari D. Brooks, Drexel University College of Medicine*

*Hyoil Han, Drexel University*

### **Mining and Analyzing the Topological Structure of Protein-Protein Interaction Networks**

*Daniel Duanqing Wu, Drexel University*

*Xiaohua Hu, Drexel University*

### **Innovative Computational Methods for Transcriptomic Data Analysis**

*Michael A. Langston, University of Tennessee*

*Andy D. Perkins, University of Tennessee*

*Arnold M. Saxton, University of Tennessee*

*Jon A. Scharff, University of Tennessee*

*Brynn H. Voy, Oak Ridge National Laboratory*

### **An Extension of Dead End Elimination for Protein Side-Chain Conformation using Merge-Decoupling**

*Hon Wai Leong, National University of Singapore*

*Ket Fah Chong, National University of Singapore*

## **Poster Papers**

### **A Bayesian Approach for Protein Classification**

*Luiz Merschmann, Universidade Federal Fluminense*

*Alexandre Plastino, Universidade Federal Fluminense*

### **A Novel Data Mining Algorithm for Reconstructing Gene Regulatory Networks from Microarray Data**

*Patrick C.H. Ma, Hong Kong Polytechnic University*

*Keith C.C. Chan, Hong Kong Polytechnic University*

## **Computer Applications in Health Care (CACH)**

Track Co-Chairs: Valentin Masero, University of Extremadura, Spain

Pierre Collet, Université du Littoral (ULCO), France

### **MEDIC: Mobile Diagnosis for Improved Care**

*Dympna O'Sullivan, University College Dublin*

*Eoin McLoughlin, University College Dublin*

*Michela Bertolotto, University College Dublin*

*David C. Wilson, University of North Carolina @ Charlotte*

### **On Tracker Attacks in Health Grids**

*Andrew Simpson, University of Oxford*

*David Power, University of Oxford*

*Mark Slaymaker, University of Oxford*

### **Digital Geometry Image Analysis for Medical Diagnosis**

*Shiaofen Fang, Indiana Univ Purdue Univ Indianapolis*

*Jiandong Fang, Indiana Univ Purdue Univ Indianapolis*

*Jeffrey Huang, Indiana Univ Purdue Univ Indianapolis*

*Mihran Tuceryan, Indiana Univ Purdue Univ Indianapolis*

### **Hardware/Software 2D-3D Backprojection on a SoPC Platform**

*Nicolas Gac, INP Grenoble*

*Stéphane Mancini, INP Grenoble*

*Michel Desvignes, INP Grenoble*

### **Solving the Brachytherapy Seed Localization Problem using Geometric and Linear Programming Techniques**

*Vikas Singh, University at Buffalo*

*Lopamudra Mukherjee, University at Buffalo*

*Jinhui Xu, University at Buffalo*

*Kenneth Hoffmann, University at Buffalo*

### **Approaches to Text Mining for Clinical Medical Records**

*Xiaohua Zhou, Drexel University*

*Hyoil Han, Drexel University*

*Isaac Chankai, Drexel University*

*Ann Prestrud, Drexel University*

*Ari Brooks, Drexel University College of Medicine*

### **Visualization of Unstructured Text Sequences of Nursing Narratives**

*Shiaofen Fang, Indiana Univ Purdue Univ Indianapolis*

*Min Lwin, Indiana Univ Purdue Univ Indianapolis*

*Patricia Ebright, Indiana University*

### **J-Ortho: An Open-Source Orthodontic Treatment Simulator**

*Maria Andréia Formico Rodrigues, University of Fortaleza*

*Wendel Bezerra Silva, University of Fortaleza*

*Rafael G. Barbosa, Universidade de Fortaleza*

*Isabel M. M. P. Ribeiro, University of Fortaleza*

*Milton E. B. Neto, Univeristy of Fortaleza*

### **Effective Shape-based Retrieval and Classification of Mammograms**

*Joaquim C. Felipe, University of São Paulo*

*Agma J.M. Traina, University of São Paulo at São Carlos*

*Caetano Traina Jr, University of São Paulo at São Carlos*

*Marcela X. Ribeiro, University of São Paulo at São Carlos*

*Elaine P.M. Souza, University of São Paulo at São Carlos*

## **Poster Papers**

### **Development of a Collaborative Environment Applied to Pediatric Oncology**

*André Luiz Miranda da Rosa, Universidade de São Paulo*

*Ilana de A. Souza, Universidade de São Paulo*

*Adilson Yuuji Hira, Universidade de São Paulo*

*Marcelo Knörich Zuffo, Universidade de São Paulo*

## **A New Similarity Measure for Histograms Applied to Content-based Retrieval of Medical Images**

*Joaquim C. Felipe, University of de São Paulo*

*Agma J.M. Traina, University of São Paulo at São Carlos*

*Caetano Traina Jr, University of São Paulo at São Carlos*

## **Computer Ethics and Human Values (CEHV)**

Track Chair: Keith W. Miller, Univ. of Illinois at Springfield, USA

### **Track Editorial**

#### **Good/Fast/Cheap: Contexts, Relationships and Professional Responsibility During Software Development**

*Marty Wolf, Bemidji State University*

*Frances Grodzinsky, Sacred Heart University*

#### **Moral Responsibility and IT for Human Enhancement**

*Noëmi Manders-Huits, Delft University of Technology*

#### **A Dialogue on Responsibility, Moral Agency, and IT Systems**

*Deborah G. Johnson, Univ. of Virginia*

*Keith W. Miller, Univ. of Illinois at Springfield*

#### **GIS, SINKS, FILL, and Disappearing Wetlands: Unintended Consequences in Algorithmic Development and Use**

*David G. Jenkins, Univ. of Central Florida*

*Lisa A. McCauley, Univ. of Central Florida*

## **Computer Forensics (CF)**

Track Co-Chairs: Brajendra Panda, University of Arkansas, USA

Kameswara Namuduri, Wichita State University, USA

#### **The Advent of Trusted Computing: Implications for Digital Forensics**

*Judie Mulholland, FSU / Florida Cybersecurity Institute*

*Mike Burmester, Florida State University*

#### **Investigating 'Internet Crimes Against Children' (ICAC) Cases in the State of Florida**

*Judie Mulholland, FSU / Florida Cybersecurity Institute*

*Bob Breeden, Florida Department of Law Enforcement*

#### **Automated Recognition of Event Scenarios for Digital Forensics**

*George Mohay, Queensland University of Technology*

*Jonathon Abbott, Queensland University of Technology*

*Jim Bell, Defence Science and Technology Organisat*

*Andrew Clark, Queensland University of Technology*

*Olivier De Vel, Defence Science and Technology Organisat*

#### **Identification of Parameters and Restoration of Motion Blurred Images**

*Karm Veer Arya, I.I.T. Kanpur*

*Ravindra Lokhande, I.I.T.Kanpur*

*Phalguni Gupta, I.I.T.Kanpur*

## **Computer Law and Advanced Technologies (CLAT)**

Track Co-Chairs: Giovanni Sartor, University of Bologna, Italy

Alessandra Villecco, University of Bologna, Italy

## **Track Editorial**

### **A Multi-agent System for Efficiently Managing Query Answering in an e-Government Scenario**

*Pasquale De Meo, Università Mediterranea Reggio Calabria*

*Hind Fadil, Institut National Polytech. de Grenoble*

*Giovanni Quattrone, Università Mediterranea Reggio Calabria*

*Domenico Ursino, Università Mediterranea Reggio Calabria*

### **On the Relationship between Roles and Power: Preliminary Report**

*Maria Fasli, University of Essex*

## **Poster Papers**

### **Deontic Relevant Logic as the Logical Basis for Legal Information Systems**

*Jingde Cheng, Saitama University*

## **Computer Security (SEC)**

Track Co-Chairs: Giampaolo Bella, Università di Catania, Italy

Peter Y.A. Ryan, University of Newcastle upon Tyne, UK

## **Track Editorial**

### **An Initial Analysis and Presentation of Malware Exhibiting Swarm-Like Behavior**

*Fernando C. Colón Osorio, Wireless System Security Research Lab*

*Zachi Klopman, Worcester Polytechnic Institute*

### **Noxes: A Client-Side Solution for Mitigating Cross-Site Scripting Attacks**

*Engin Kirda, Technical University of Vienna*

*Christopher Kruegel, Technical University of Vienna*

*Nenad Jovanovic, Technical University of Vienna*

*Giovanni Vigna, UCSB*

### **Lost in Just the Translation**

*Ryan Stutsman, Purdue University*

*Mikhail Atallah, Purdue University*

*Christian Grothoff, UCLA*

*Krista Grothoff, Purdue University*

### **To Infinity and Beyond or, Avoiding the Infinite in Security Protocol Analysis**

*James Heather, University of Surrey*

*Steve Schneider, University of Surrey*

### **SF-HME System: A Hierarchical Mixtures-of-Experts Classification System for Spam Filtering**

*Stefanos Gritzalis, University of the Aegean*

*Petros Belsis, University of the Aegean*

*Kostas Fragkos, NTUA*

*Christos Skourlas, TEI of Athens*

### **An Anomaly-driven Reverse Proxy for Web Applications**

*Giovanni Vigna, UCSB*

*Christopher Kruegel, Technical University of Vienna*

*Engin Kirda, TU Vienna*

*Fredrik Valeur, UCSB*

### **Bootstrapping Multi-Party Ad-Hoc Security**

*Michael Goldsmith, Formal Systems (Europe) Ltd*

*Bill Roscoe, Oxford University*

*Ming Xiao, Oxford University*

*Sadie Creese, QinetiQ*

### **Extending Noninterference Properties to the Timed World**

*A.W. Roscoe, Oxford University*

*Huang Jian, Oxford University*

### **Improving Address Space Randomization with a Dynamic Offset Randomization Technique**

*Haizhi Xu, Syracuse University*

*Steve J. Chapin, Syracuse University*

## **Constraint Solving and Programming (CSP)**

Track Co-Chairs: Stefano Bistarelli, Univ. degli studi "G. D'Annunzio" di Chieti-Pescara, Italy

Eric Monfroy, University of Nantes, France

Barry O'Sullivan University College Cork, Ireland

### **Track Editorial**

#### **A new Local Consistency for Weighted CSP Dedicated to Long Domains**

*Matthias Zytnicki, INRA*

*Christine Gaspin, INRA*

*Thomas Schiex, INRA*

#### **Enforcing Path Uniqueness in Internet Routing**

*Daniel Lucraft, Imperial College London*

*Andrew Eremin, Imperial College London*

*Farid Ajili, Imperial College London*

#### **A Constraint Solver for Sequences and its Applications**

*Nikolai Kosmatov, INRIA Lorraine*

#### **Efficient Interactive Configuration of Unbounded Modular Systems**

*Erik Roland van der Meer, IT University of Copenhagen*

*Andrzej Wasowski, IT University of Copenhagen*

*Henrik Reif Andersen, IT University of Copenhagen*

### **Poster Papers**

#### **From Satisfiability to Consistency through Certificates. Application to Partially Defined Constraints**

*Arnaud Lallouet, University of Orleans*

*Andrei Legtchenko, University of Orleans*

## **Coordination Models, Languages and Applications (CM)**

Track Co-Chairs: Allesandro Ricci, Universita di Bologna, Italy

Ronaldo Menezes, Florida Institute of Technology, USA

### **Track Editorial**

#### **A Coordination Model for the Semantic Web**

*Robert Tolksdorf, Freie Universität Berlin*

*Elena Paslaru Bontas, Freie Universität Berlin*

*Lyndon J.B. Nixon, Freie Universität Berlin*

#### **Defining Coordination in Multi-Agent Systems within an Agent Oriented Software Engineering Methodology**

*Jorge Gómez-Sanz, Universidad Complutense de Madrid*

*Juan Pavón, Universidad Complutense Madrid*



### **BTS: A Byzantine Fault-Tolerant Tuple Space**

*Alysson Neves Bessani, Universidade Federal de Santa Catarina*  
*Joni da Silva Fraga, Universidade Federal de Santa Catarina*  
*Lau Cheuk Lung, PUC-PR*

### **Making Tuple Spaces Physical with RFID Tags**

*Marco Mamei, Università di Modena e Reggio Emilia*  
*Renzo Quagliari, Università di Modena e Reggio Emilia*  
*Franco Zambonelli, Università di Modena e Reggio Emilia*

### **The Fading Concept in Tuple-Space Systems**

*Ronaldo Menezes, Florida Tech.*  
*Alan Wood, University of York*

## **Poster Papers**

### **Towards Chemical Coordination for Grids**

*Yann Radenac, IRISA, University of Rennes 1*  
*Pascal Fradet, INRIA*  
*Jean-Pierre Banâtre, IRISA, University of Rennes 1*

### **An Abstract Architecture for Semantic Service Coordination in Agent-based Intelligent Peer-to-Peer Environments**

*Alberto Fernández, University Rey Juan Carlos*  
*Sascha Ossowski, University Rey Juan Carlos*  
*César Cáceres, Rey Juan Carlos University*  
*Matteo Vasirani, University Rey Juan Carlos*

## **Database Theory, Technology, and Applications (DTTA)**

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

## **Track Editorial**

### **On the Transitive Closure Representation and Adjustable Compression**

*Yangjun Chen, University of Winnipeg, Canada*  
*Donovan Cooke, University of Winnipeg, Canada*

### **Incorporating Fuzziness in Xml and Mapping Fuzzy Relational Data into Fuzzy XML**

*Abhishek Gaurav, University of Calgary, Canada*  
*Reda Alhajj, Global University, Lebanon*

### **Ontology-based Intregation for Relational Databases**

*Dejing Dou, University of Oregon, USA*  
*Paea LePendu, University of Oregon, USA*

### **Conceptual Modeling of XML Data**

*Carlo Combi, University of Verona, Italy*  
*Barbara Oliboni, University of Verona, Italy*

### **MTree: An XML XPath Graph Index**

*P.Mark Pettovello, Wayne State University, USA*  
*Farshad Fotouhi, Wayne State University, USA*

### **Grouping and Aggregation in the Concept-Oriented Data Model**

*Alexandr Savinov, Schloss Birlinghoven, Germany*

## **Fingerprinting Relational Databases**

*Fei Guo, Tsinghua University, China*

*Jianmin, Wang, Tsinghua University, China*

*Deyi Li, China Institute of Electronic System Engineering, China*

## **Design and Development of a Multiversion OLAP Application**

*Jarernsri L. Mitranont, Mahidol University, Thailand*

*Somchart Fugkeaw, Mahidol University, Thailand*

## **Query Reformulation for an XML-based Data Integration System**

*Bernadette Farias Loscio, Ceara State University, Brazil*

*Thaigo Costa, Federal University of Pernambuco, Brazil*

*Ana Carolina Salgado, Federal University of Pernambuco, Brazil*

## **An Extendible Multidimensional Array System for MOLAP**

*Tatsuo Tsuji, Graduate School of Engineering, Japan*

*Akihiro Hara, Graduate School of Engineering, Japan*

*Ken Higuchi, Graduate School of Engineering, Japan*

## **Poster Papers**

### **A Memory Subsystem with Comparator Arrays for Main Memory Database Operations**

*Jun Miyazaki, Graduate School of Information Science, Japan*

### **Stochastic Study of Real-Time Transactions Success Ratio**

*Samy Semghouni, University of Le Harve, Lebon*

*Bruno Sadeg, University of Le Harve, Lebon*

*Laurent Amanton, University of Le Harve, Lebon*

*Alexandre Berred, University of Le Harve, Lebon*

### **An Accuracy-Aware Compression Technique for Multidimensional Data Cubes**

*Alfred Cuzzocrea, University of Calabria, Italy*

## **Data Mining (DM)**

Track Co-Chairs: Hasan M. Jamil, Wayne State University, USA

Rosa Meo, Universita' di Torino, Italy

Gill Dobbie, University of Auckland, New Zealand

### **Exploit Sequencing to Accelerate Hot XML Query Pattern Mining**

*Qian Qian, CS Dept. Tsinghua Univ. Beijing, China*

*Jianhua Feng, CS, Tsinghua Univ. China*

*Jianyong Wang, CS, Tsinghua Univ. China*

*Lizhu Zhou, CS Dept. Tsinghua Univ. Beijing, China*

### **Semantic Analysis of Web Site Audience**

*Jean-Pierre Norguet, ULB*

*Esteban Zimányi, ULB*

*Ralf Steinberger, JRC*

### **Associative Text Categorization Exploiting Negated Words**

*Paolo Garza, Politecnico di Torino*

*Elena Baralis, Politecnico di Torino*

### **SMART-TV: A Fast and Scalable Nearest Neighbor Based Classifier for Data Mining**

*Taufik Abidin, North Dakota State University*

*William Perrizo, North Dakota State University*

### **A Probability Analysis for Candidate-Based Frequent Item-Set Algorithms**

*Nele Dexters, University of Antwerp*  
*Dirk Van Gucht, Indiana University*  
*Paul Purdom, Indiana University*

### **Looking for Monotonicity Properties of a Similarity Constraint on Sequences**

*Ieva Mitasiunaite, LIRIS - INSA Lyon*  
*Jean-François Boulicaut, LIRIS CNRS UMR 5205 - INSA Lyon*

### **The Impact of Sample Reduction on PCA-based Feature Extraction for Supervised Learning**

*Mykola Pechenizkiy, University of Jyväskylä*  
*Seppo Puuronen, University of Jyväskylä*  
*Alexey Tsymbal, Trinity College Dublin*

### **A Privacy Preserving Web Recommender System**

*Claudio Lucchese, Ca' Foscari U of Venice*  
*Ranieri Baraglia, HPC-Lab ISTI-CNR*  
*Salvatore Orlando, Ca' Foscari U of Venice*  
*Massimo Serrano, HPC-Lab ISTI-CNR*  
*Fabrizio Silvestri, HPC-Lab ISTI-CNR*

### **Selecting Parameters of SVM Using Meta-Learning and Kernel Matrix-based Meta-Features**

*Carlos Soares, NIAAD-LIACC*  
*Pavel B. Brazdil, NIAAD-LIACC*

### **Embedded Predictive Modeling in a Parallel Relational Database**

*R. Natarajan, IBM T. J. Watson Research Center*  
*A. Dorneich, IBM Software Group*  
*E. Pednault, IBM T. J. Watson Research Center*  
*F. Tiup, IBM T. J. Watson Research Center*

### **Induction of Compact Decision Trees for Personalized Recommendation**

*Daniel Nikovski, MERL*  
*Veselin Kulev, MIT*

### **A Methodology for Comparing Classifiers that Allow the Control of Bias**

*Anton Zamolotskikh, University of Dublin, Trinity College*  
*Pádraig Cunningham, Trinity College Dublin*  
*Sarah Jane Delany, Dublin Institute of Technology*

### **Towards Low-Perturbation Anonymity Preserving Pattern Discovery**

*Francesco Bonchi, KDD Lab ISTI-C.N.R.*  
*Maurizio Atzori, CS Department University of Pisa*  
*Fosca Giannotti, KDD Lab ISTI-C.N.R.*  
*Dino Pedreschi, CS Department University of Pisa*

### **Mining Sequences with Temporal Annotations**

*Mirco Nanni, ISTI-CNR*  
*Fosca Giannotti, KDD Lab ISTI-C.N.R.*  
*Dino Pedreschi, CS Department University of Pisa*  
*Fabio Pinelli, Università di Pisa*

### **Discovery of Interesting Episodes in Sequence Data**

*Sharma Chakravarthy, The Univ. of Texas at Arlington*  
*Ambika Srinivasan, The Univ. of Texas at Arlington*  
*Dhawal Bhatia, The Univ. of Texas at Arlington*

## **Privacy-Preserving SVM using Nonlinear Kernels on Horizontally Partitioned Data**

*Jaideep Vaidya, Rutgers University*

*Hwanjo Yu, University of Iowa*

*Xiaoqian Jiang, University of Iowa*

## **Effective Rule Induction from Labeled Graphs**

*Tamás Horváth, Fraunhofer Institute AIS*

*Stefan Wrobel, Fraunhofer AIS & Univ. Bonn*

*Susanne Hoche, University of Bristol*

## **Towards Value Disclosure Analysis in Modeling General Databases**

*Xintao Wu, UNC Charlotte*

*Songtao Guo, UNC Charlotte*

*Yingjiu Li, Singapore Management University*

## **On the Use of Spectral Filtering for Privacy Preserving Data Mining**

*Xintao Wu, UNC Charlotte*

*Songtao Guo, UNC Charlotte*

## **Expanding the Taxonomies of Bibliographic Archives with Persistent Long-Term Themes**

*Rene Schult, ITI*

*Myra Spiliopoulou, ITI*

## **Poster Papers**

### **Semi-Supervised Outlier Detection**

*Jing Gao, Michigan State University*

*Haibin Cheng, Michigan State University*

*Pang-Ning Tan, Michigan State University*

### **CLUC: A Natural Clustering Algorithm for Categorical Datasets based on Cohesion**

*Nematollah Shiri, Concordia University*

*Aida Nematollah, Concordia University*

### **Bias-free Hypothesis Evaluation in Multirelational Domains**

*Stefan Wrobel, Fraunhofer AIS & Univ. Bonn*

*Christine Körner, Fraunhofer AIS*

## **Data Streams (DS)**

Track Co-Chairs: Jesus S. Aguilar-Ruiz, Pablo de Olavide University, Spain

Francisco J. Ferrer-Troyano, University of Seville, Spain

### **Track Editorial**

#### **Evaluating the Intrinsic Dimension of Evolving Data Streams**

*Elaine P.M. de Sousa, University of São Paulo at São Carlos*

*Agma J.M. Traina, University of São Paulo at São Carlos*

*Caetano Traina Jr., University of São Paulo at São Carlos*

*Christos Faloutsos, Carnegie Mellon University*

#### **A Framework for Resource-aware Knowledge Discovery in Data Streams: A Holistic Approach with Its Application to Clustering**

*Mohamed Medhat Gaber, Caulfield School of Information Technology*

*Philip S. Yu, IBM T.J. Watson Research Center*

## **Data Streams Classification by Incremental Rule Learning with Parameterized Generalization**

*Francisco Ferrer-Troyano, University of Seville, Spain*

*Jesus Aguilar-Ruiz, Pablo de Olavide University, Spain*

*Jose C. Riquelme, University of Seville, Spain*

## **Discretization from Data Streams: Applications to Histograms and Data Mining**

*João Gama, LIACC*

*Carlos Pinto, LIACC*

## **Dependable and Adaptive Distributed Systems (DADS)**

Track Co-Chairs: *Karl M. Göschka, Vienna University of Technology, Austria*

*Svein O. Hallsteinsen, SINTEF ICT, Norway*

*Rui Oliveira, Universidade do Minho, Portugal*

*Alexander Romanovsky, University of Newcastle upon Tyne, UK*

## **Track Editorial**

### **Quiescent Consensus in Mobile Ad-hoc Networks using Eventually Storage-Free Broadcasts**

*Paul Ezhilchelvan, University of Newcastle*

*François Bonnet, Ecole Normale Supérieure*

*Einar Vollset, University of Newcastle*

### **Evaluating Unstructured Peer-to-Peer Lookup Overlays**

*Roie Melamed, Technion*

*Idit Keidar, Technion*

### **Verification of Coordinated Exception Handling**

*Fernando Castor Filho, State University of Campinas*

*Alexander Romanovsky, University of Newcastle upon Tyne*

*Cecília Mary F. Rubira, State University of Campinas*

### **Proactive Resilience through Architectural Hybridization**

*Paulo Sousa, University of Lisboa*

*Nuno Ferreira Neves, University of Lisboa*

*Paulo Veríssimo, University of Lisboa*

### **Service Interface: A New Abstraction for Implementing and Composing Protocols**

*Olivier Rütti, EPFL*

*Pawel T. Wojciechowski, EPFL*

*André Schiper, EPFL*

### **An Adaptive Index Allocation Scheme for Reliable Data Retrieval and Provision in Peer-to-Peer Networks**

*Atsushi Ito, KDDI Corporation*

*Tomoyuki Ohta, Hiroshima City University*

*Kouichi Mitsukawa, Hiroshima City University*

*Yoshiaki Kakuda, Hiroshima City University*

### **Combining Supervised and Unsupervised Monitoring for Fault Detection in Distributed Computing Systems**

*Haifeng Chen, NEC Laboratories America*

*Guofei Jiang, NEC Laboratories America*

*Cristian Ungureanu, NEC Laboratories America*

*Kenji Yoshihira, NEC Laboratories America*

### **Post-Partition Reconciliation Protocols for Maintaining Consistency**

*Mikael Asplund, Linköping University*

*Simin Nadjm-Tehrani, Linköping University*

## **Modeling of Component-based Adaptive Distributed Applications**

*Mohammad Ullah Khan, University of Kassel*

*Svein Hallsteinsen, SINTEF ICT*

*Kurt Geihs, University of Kassel*

*Roland Reichle, University of Kassel*

*Arnor Solberg, SINTEF ICT*

*Simon Merral, Condat AG*

## **From Spontaneous Total Order to Uniform Total Order: Different Degrees of Optimistic Delivery**

*José Mocito, Faculty of Sciences, Universidade de Lisboa*

*Luis Rodrigues, Universidade de Lisboa*

*Nuno Carvalho, Universidade de Lisboa*

## **Revisiting 1-Copy Equivalence in Clustered Databases**

*Rui Oliveira, University of Minho*

*Alfránio Correia, UMINHO*

*José Pereira, University of Minho*

*Edward Archibald, Emic Networks*

## **Poster Papers**

### **Distributed Context Management in a Mobility and Adaptation Enabling Middleware (MADAM)**

*Nearchos Paspallis, University of Cyprus*

*George A. Papadopoulos, University of Cyprus*

*Marius Mikalsen, SINTEF ICT*

*Erlend Stav, SINTEF ICT*

*Jacqueline Floch, SINTEF ICT*

*Akis Chimaris, University of Cyprus*

### **Analysis of Deployment Dependencies in Software Components**

*Meriem Belguidoum, ENST Bretagne*

*Fabien Dagnat, ENST Bretagne*

### **A Framework for (Re)Deploying Components in Distributed Real-time and Embedded Systems**

*Nishanth Shankaran, Vanderbilt University*

*Jaiganesh Balasubramanian, Vanderbilt University*

*Douglas Schmidt, Vanderbilt University*

*Gautam Biswas, Vanderbilt University*

*P. Lardieri, Lockheed Martin Advanced Technology Labs*

*E. Mulholland, Lockheed Martin Advanced Technology Labs*

*T. Damiano, Lockheed Martin Advanced Technology Labs*

## **Distributed Systems and Grid Computing (DSGC)**

Track Co-Chairs: Robert van Engelen, Florida State University, USA

Madhu Govindaraju, Binghamton University, USA

Nectarios Koziris, National Technical University of Athens, Greece

Kleanthis Psarris, University of Texas at San Antonio, USA

## **Track Editorial**

### **Service-Oriented Grid Computation for Large-Scale Parameter Estimation in Complex Environmental Modeling**

*Kejing He, South China University of Technology*

*Shoubin Dong, South China University of Technology*

*Liqun Tang, South China University of Technology*  
*Li Zheng, Chinese Academy of Science*

### **Building the Functional Performance Model of a Processor**

*Alexey Lastovetsky, University College Dublin*  
*Ravi Reddy, University College Dublin*  
*Robert Higgins, University College Dublin*

### **Grid Resource Discovery Based on Semantic P2P Communities**

*Juan Li, University of British Columbia*  
*Son Vuong, University of British Columbia*

### **FCAN: Flash Crowds Alleviation Network**

*Chenyu Pan, Saitama University*  
*Norihiko Yoshida, Saitama University*  
*Merdan Atajanov, Saitama University*  
*Mohammad B. Hossain, Kyushu Sangyo University*  
*Toshihiko Shimokawa, Kyushu Sangyo University*

### **xSpace - A Tuple Space for XML & its Application in Orchestration of Web Services**

*Umesh Bellur, IIT Bombay*  
*Siddharth Bondre, IIT Bombay*

### **Design and Implementation of a Real-Time Notification Service within the Context of Embedded ORB and the CAN Bus**

*Tarek Gasmi, Laboratoire SYSCOM, ENIT*  
*Salem Hasnaoui, ENIT*  
*Houria Rezik, ENIT*

### **J2EE Server Scalability through EJB Replication**

*Daniel Hagimont, INPT/ENSEEIH*  
*Sylvain Sicard, INRIA*  
*Noel De Palma, INRIA Rhone-Alpes - SARDES project*

### **Planning Spatial Workflows to Optimize Grid Performance**

*Luiz Meyer, Federal University of Rio de Janeiro*  
*James Annis, Fermilab*  
*Mike Wilde, Argonne National Laboratory*  
*Ian Foster, Argonne National Laboratory*  
*Marta Mattoso, Federal University of Rio de Janeiro*

### **Improving the Performances of Proxy Cache Replacement Policies by Considering Infrequent Objects**

*Hon Wai Leong, National University of Singapore*  
*Bo Guan, National University of Singapore*

### **Implementation of a Dynamic Adjustment Mechanism with Efficient Replica Selection in Data Grid Environments**

*Chao-Tung Yang, Tunghai University*  
*I-Hsien Yang, Tunghai University*  
*Chun-Hsiang Chen, Tunghai University*  
*Shih-Yu Wang, Tunghai University*

## **Poster Papers**

### **ALTER: First Step towards Dependable Grids**

*Hai Jin, Huazhong University of Science and Tech.*  
*Xuanhua Shi, Huazhong University of Science and Tech.*

*Weizhong Qiang, Huazhong University of Science and Tech.*

### **A Black-Box Approach for Web Application SLA**

*Noël De Palma, INRIA Rhone-Alpes - SARDES project*

*Jeremy Philippe, INRIA*

*Sara Bouchenak, Joseph Fourier University*

*Fabienne Boyer, Joseph Fourier University*

*Daniel Hagimont, INRIA*

## **Document Engineering (DE)**

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

### **Track Editorial**

#### **High Performance XSL-FO Rendering for Variable Date Printing**

*Fabio Giannetti, HP Laboratories, UK*

*Luiz Gustavo Fernandes, PPGCC-PUCRS, Brazil*

*Roger Timmers, HP Brazil R&D, Brazil*

#### **Managing duplicates in a web archive**

*Daniel Gomes, Universidade de Lisboa, Portugal*

*Andre L. Santos, Universidade de Lisboa, Portugal*

*Mario J. Silva, Universidade de Lisboa, Portugal*

#### **Angular Measures for Feature Selection in Text Categorization**

*E.F. Combarro, University of Oviedo, Spain*

*Elena Montanes, University of Oviedo, Spain*

*Jose Ranilla, University of Oviedo, Spain*

#### **Computing Edit Distances Between an XML Document and a Schema and its Application in Document Classification**

*Guangming Xing, Western Kentucky University, USA*

*Chaitanya R. Malla, Western Kentucky University, USA*

*Zhonghang Xia, Western Kentucky University, USA*

*Snigdha Dantala Venkata, Western Kentucky University, USA*

#### **An Implicit Segmentation-based Method for Recognition of Handwritten Strings of Characters**

*Paulo Rodrigo Cavalin, Pontificia Univerdidade, Brazil*

*Alceu de Souza Britto Jr., Pontificia Universidade, Brazil*

*Flavio Bortolozzi, Pontificai Universidade, Brazil*

#### **Detection and Segmentation of Tables and Math-Zones from Document Images**

*S. Mandal, Bengal Engineering and Science University, India*

*S.P. Chowdhury, Bengal Engineering and Science University, India*

*A.K. Das, Bengal Engineering and Science University, India*

*Bhabatosh Chanda, Indian Statistical Institute, India*

#### **A New Table Interpretation Methodology with Little Knowledge Base**

*Luiz Antonio Pereira Neves, UFCG, Brazil*

*Joao Marquez de Carvalho, UFCG, Brazil*

*Jacques Facon, PUCPR, Brazil*

*Flavio Bortolozzi, PUCPR, Brazil*

#### **Binarizing and Filtering Historical Documents with Back-to-Front Interference**

*Joao Marcelo da Silva*

*Rafael Dueire Lins, DES-CTG-UFPE, Brazil*

*Vlademar Cardoso da Rocha*



## Poster Papers

### **Evaluation of a Language Identification System for Mono- and Multilingual Text Documents**

*Olga Artemenko, University of Hildesheim, Germany*

*Thomas Mandl, University of Hildesheim, Germany*

*Christa Womser-Hacker, University of Hildesheim, Germany*

### **Finding Optimal Linear Measures for Feature Selection in Text Categorization**

*Elena Montanes, University of Oviedo, Spain*

*E.F. Combarro, University of Oviedo, Spain*

*Jose Ranilla, University of Oviedo, Spain*

### **Comparisons of File Formats for Image Transmission through Networks**

*Rafael Dueire Lins, Universidade Federal de Pernambuco, Brazil*

*Charlana Rodrigues, Siemens Communications, Brazil*

## **Electronic Commerce Technologies (ECT)**

Track Co-Chairs: Sviatoslav Braynov, State University of New York at Buffalo, USA

Manuel Núñez, Universidad Complutense de Madrid, Spain

Fernando Rubio, Universidad Complutense de Madrid, Spain

## Track Editorial

### **Mining and Prediction of Temporal Navigation Patterns For Personalized Services in E-Commerce**

*Vincent S. Tseng, National Cheng Kung University*

*Jeng-Chuan Chang, National Cheng Kung University*

*Kawuu W. Lin, National Cheng Kung University*

### **Privacy-Preserving Demographic Filtering**

*José Fernandez, Ecole Polytechnique de Montreal*

*Esma Aïmeur, Université de Montreal*

*Gilles Brassard, Université de Montreal*

*Flavien Serge Mani Onana, Université de Montreal*

### **Analysis of the SET e-Commerce Protocol using a True Concurrency Process Algebra**

*M. Carmen Ruiz, Universidad de Castilla-La Mancha*

*Fernando Cuartero, Universidad Castilla-La Mancha*

*Juan Jose Pardo, Universidad Castilla-La Mancha*

*Diego Cazorla, Universidad Castilla-La Mancha*

## Poster Papers

### **Dominance and Ranking Issues Applying Interval Techniques in Pre-Negotiations for Services**

*Petco Tsvetinov, Queensland University of Technology*

*Alan Underwood, Queensland University of Technology*

*Tiazan Chan, Queensland University of Technology*

## **Embedded Systems: Applications, Solutions and Techniques (EMBS)**

Track Co-Chairs: Alessio Bechini, University of Pisa, Italy

Cosimo Antonio Prete, University of Pisa, Italy

François Bodin, Campus de Beaulieu, France

## Track Editorial

### **Data Sharing Protocols for SMT Processors**

*Shi-Wu Lo, National Chung Cheng University*

## **Efficient Initialization and Crash Recovery for Log-based File Systems over Flash Memory**

*Chin-Hsien Wu, National Taiwan University*

*Tei-Wei Kuo, National Taiwan University*

*Li-Pin Chang, National Chio-Tung University*

## **A Domain-Specific Language for Multi-task Systems, Applying Discrete Controller Synthesis**

*Gwenaël Delaval, INRIA Rhône-Alpes*

*Éric Rutten, INRIA Futurs/LIFL*

## **Selective Compilation via Fast Code Analysis and Bytecode Tracing**

*Giovanni Agosta, Politecnico di Milano*

*Stefano Crespi Reghizzi, Politecnico di Milano*

*Paolo Palumbo, Politecnico di Milano*

*Martino Sykora, Politecnico di Milano*

## **A Concurrent Reactive Esterel Processor Based on Multi-Threading**

*Reinhard von Hanxleden, CAU Kiel*

*Xin Li, Christian-Albrechts-Universität zu*

## **On Utility Accrual Processor Scheduling with Wait-Free Synchronization for Embedded Real-Time Software**

*Hyeonjoong Cho, Virginia Polytechnic Institute and State*

*Binoy Ravindran, Virginia Tech*

*E. Douglas Jensen, The MITRE Corporation*

## **QoS Support for IEEE-1394 Requests**

*Chih-Yuan Huang, National Taiwan Univ.*

*Tei-Wei Kuo, National Taiwan Univ.*

*Ai-Chun Pang, National Taiwan Univ.*

## **Branchless Cycle Prediction for Embedded Processors**

*Amirali Baniyadi, University of Victoria*

*Kaveh Jokar Deris, University of Victoria*

## **Poster Papers**

### **On Bounding Energy Consumption in Dynamic, Real-Time Embedded Systems**

*Haisang Wu, Juniper Networks, Inc.*

*Binoy Ravindran, Virginia Tech*

*E. Douglas Jensen, The MITRE Corporation*

### **File System Framework for Managing & Programming Sensor Networks**

*Bhanu Pisupati, Indiana University*

*Geoffrey Brown, Indiana University*

### **Preliminary Performance Evaluation of an Adaptive Dynamic Extensible Processor for Embedded Applications**

*Hamid Noori, Kyushu University*

*Kazuaki Murakami, Kyushu University*

## **Evolutionary Computation and Optimization (ECO)**

Track Chair: Bryant A. Justrom, St. Cloud State University, USA

### **Track Editorial**

### **Adaptive Mutation with Fitness and Allele Distribution Correlation for Genetic Algorithms**

*Shengxiang Yang, University of Leicester*

*Şima Uyar, Istanbul Technical University*

### **Analysis of an Evolutionary Algorithm with HyperMacromutation and Stop at First Constructive Mutation Heuristic for Solving Trap Functions**

*Vincenzo Cutello, University of Catania*

*Giuseppe Nicosia, University of Catania*

*Pietro Simone Oliveto, University of Catania*

### **Real Coded Clonal Selection Algorithm for Unconstrained Global Optimization using a Hybrid Inversely Proportional Hypermutation Operator**

*Vincenzo Cutello, University of Catania*

*Giuseppe Nicosia, University of Catania*

*Mario Pavone, University of Catania*

*Giuseppe Narzisi, University of Catania*

### **A-Brain: The Multiple Problem Solver**

*Mihai Oltean, Babes-Bolyai Univ.*

## **Poster Papers**

### **The Effects of Two Replacement Strategies on a Genetic Algorithm for Scheduling Jobs on Computational Grids**

*Fatos Xhafa, Polytechnic University of Catalonia*

*Bernat Duran, Polytechnic University of Catalonia*

## **Geometric Computing and Reasoning (GCR)**

Track Co-Chairs: *Xiao-Shan Gao, Chinese Academy of Sciences, China*

*Dominique Michelucci, Universite de Bourgogne, France*

*Pascal Schreck, Universite Louis Pasteur, France*

## **Track Editorial**

### **NFP-based Nesting Algorithm for Irregular Shapes**

*Liu Hu Yao, Shanghai Jiaotong University*

*He Yuan Jun, Shanghai Jiaotong University*

### **An Adjustment Model in a Geometric Constraint Solving Problem**

*Reyes Pavón, University of Vigo*

*Fenando Díaz, University of Valladolid*

*M. Victoria Luzón, University of Vigo*

### **A Framework for Geometric Constraint Satisfaction Problem**

*Julien Wintz, LSIT-ULP*

*Pascal Mathis, LSIT-ULP*

*Pascal Schreck, LSIT-ULP*

### **Spatial Geometric Constraint Solving Based on k-connected Graph Decomposition**

*Gui-Fang Zhang, Institute of Systems Science*

*Xiao-Shan Gao, Institute of Systems Science*

## **Handheld Computing (HHC)**

Track Co-Chairs: *Qusay H. Mahmoud, University of Guelph, Canada*

*Zakaria Maamar, Zayed University, UAE*

## **Track Editorial**

### **Detecting Identifiable Areas in Mobile Environments**

*Jörg Roth, University of Hagen*

### **Extending the Location API for J2METM to Support Friend Finder Services**

*David Parsons, Massey University*

### **Field Study on Methods for Elicitation of Preferences using a Mobile Digital Assistant for a Dynamic Tour Guide**

*Klaus ten Hagen, University of Zittau Goerlitz*

*Marko Modsching, University of Zittau Goerlitz*

*Ronny Kramer, University of Zittau Goerlitz*

### **Interactive Mobile 3D Graphics for On-the-go Visualization and Walkthroughs**

*Maria Andréia Formico Rodrigues, University of Fortaleza*

*Nabor C. Mendonça, Universidade de Fortaleza*

*Rafael G. Barbosa, Universidade de Fortaleza*

### **Personalization and Visualization on Handheld Devices**

*George Karabatis, UMBC*

*Dongsong Zhang, UMBC*

*Zhiyuan Chen, UMBC*

*Boonlit Adipat, UMBC*

*Liwei Dai, UMBC*

*Zhenxue Zhang, UMBC*

*Yu Wang, UMBC*

### **UbiComp Assistant: An Omnipresent Customizable Service using MARKS (Middleware Adaptability for Resource Discovery, Knowledge Usability and Self-healing)**

*Sheikh I. Ahamed, Marquette University*

*Shameem Ahmed, Marquette University*

*Moushumi Sharmin, Marquette University*

## **Information Access and Retrieval (IAR)**

Track Co-Chairs: Fabio Crestani, University of Strathclyde, UK

Gabriella Pasi, ITC-CNR, Italy

## **Track Editorial**

### **Tree Inclusion Algorithm, Signatures and Evaluation of Path-Oriented Queries**

*Yangjun Chen, University of Winnipeg*

### **Distributed Collaborative Filtering for Peer-to-Peer File Sharing Systems**

*Jun Wang, Delft University of Technology*

*Johan Pouwelse, Delft University of Technology*

*Reginald Lagendijk, Delft University of Technology*

*Marcel Reinders, Delft University of Technology*

### **Light Stemming Approaches for the French, Portuguese, German and Hungarian Languages**

*Jacques Savoy, University of Neuchatel*

### **Using the Structure of Documents to Improve the Discovery of Unexpected Information**

*François Jacquenet, University of Saint Etienne*

*Christine Largeton, University of Saint-Etienne*

### **FITE-TRT: A High Quality Translation Technique for OOV Words**

*Ari Pirkola, University of Tampere*

*Jarmo Toivonen, Tampere University of Technology*  
*Heikki Keskustalo, University of Tampere*  
*Kalervo Järvelin, University of Tampere*

### **Content-based Music Filtering System with Editable User Profile**

*Yoshinori Hijikata, Osaka University*  
*Kazuhiro Iwahama, Osaka University*  
*Kazuki Takegawa, Osaka University*  
*Shogo Nishida, Osaka University*

### **A Scalable Algorithm for High-Quality Clustering of Web Snippets**

*Marco Pellegrini, IIT-CNR*  
*Fabrizio Sebastiani, University of Padova*  
*Filippo Geraci, CNR*  
*Paolo Pisati, CNR*

### **Graph-based Automatic Suggestion of Relationships among Images of Illuminated Manuscripts**

*Nicola Ferro, University of Padua*  
*Maristella Agosti, University of Padua*  
*Nicola Orio, University of Padua*

### **Investigating the Use of Summarisation for Interactive XML Retrieval**

*Zoltán Szlávik, Queen Mary University of London*  
*Anastasios Tombros, Queen Mary University of London*  
*Mounia Lalmas, Queen Mary University of London*

### **Email Classification for Automated Service Handling**

*Dan Smith, University of East Anglia*  
*Ross Tailby, Antech Engineering Ltd*  
*Richard Dean, Antech Engineering Ltd*  
*Ben Milner, University of East Anglia*

### **Automatic Structured Query Transformation Over Distributed Digital Libraries**

*M. Elena Renda, IIT - CNR*  
*Umberto Straccia, ISTI - CNR*

### **Relevance Feedback Methods for Logo and Trademark Image Retrieval on the Web**

*Euripides G.M. Petrakis, Technical University of Crete (TUC)*  
*Evangelos E. Milios, Dalhousie University*  
*Klaydios Kontis, Technical University of Crete (TUC)*  
*Epimenidis Voutsakis, Technical University of Crete (TUC)*

### **An Innovative Approach to Intelligent Information Filtering**

*Randa Kassab, LORIA - INRIA Lorraine*  
*Jean-Charles Lamirel, LORIA*

### **Template Detection for Large Scale Search Engines**

*Liang Chen, NGN Lab*  
*Shaozhi Ye, University of California, Davis*  
*Xing Li, Tsinghua University*

### **Undue Influence: Eliminating the Impact of Link Plagiarism on Web Search Rankings**

*Baoning Wu, Lehigh Univ*  
*Brian D. Davison, Lehigh Univ.*

### **Exploiting Partial Decision Trees for Feature Subset Selection in e-Mail Categorization**

*Helmut Berger, EC3*  
*Dieter Merkl, Technische Universität Wien*  
*Michael Dittenbach, EC3*

## Poster Papers

### **An Evaluation of Resource Description Quality Measures**

*Mark Baillie, University of Strathclyde*

*Leif Azzopardi, University of Amsterdam*

*Fabio Crestani, University of Strathclyde*

### **MonA - An Extensible Framework for Web Document Monitoring**

*David Kensche, RWTH Aachen University*

*Christian Seeling, Fraunhofer-FIT*

*Andreas Becks, Fraunhofer Gesellschaft*

### **XML retrieval: What about using Contextual Relevance?**

*Karen Sauvagnat, IRIT-SIG*

*Lobna Hlaoua, IRIT-SIG*

*Mohand Boughanem, IRIT*

### **Recommendation-based Browsing Assistance for Corporate Knowledge Portals**

*Sergiu Gordea, University Klagenfurt*

*Markus Zanker, University Klagenfurt*

### **Study of the Usefulness of Known and New Implicit Indicators and Their Optimal Combination for Accurate Inference of Users Interests**

*Bracha Shapira, Ben-Gurion University*

*Meirav Taieb-Maimon, Ben-Gurion University*

*Anny Moskowitz, Ben-Gurion University*

## **Mobile Computing and Applications (MCA)**

Track Co-Chairs: Hong Va Leong, Hong Kong Polytechnic University, Hong Kong

Alvin Chan, Hong Kong Polytechnic University, Hong Kong

### **Track Editorial**

### **An Adaptive Energy Efficient Cache Invalidation Scheme for Mobile Databases**

*Alok Madhukar, University of Calgary*

*Reda Alhajj, University of Calgary and Global University*

### **How to Reuse Existing Interactive Applications in Ubiquitous Computing Environments?**

*Tatsuo Nakajima, Waseda University*

### **Design and Implementation of A Context-Aware Decision Algorithm for Heterogeneous Networks**

*Tansir Ahmed, BenQ Mobile*

*Kyandoghene Kyamakya, Universität Klagenfurt*

*Markus Ludwig, BenQ Mobile*

### **A Benchmark on SOAP's Transport Protocols Performance For Mobile Applications**

*Khoi Anh Phan, RMIT University*

*Zahir Tari, RMIT University*

*Peter Bertok, RMIT University*

### **Handheld Devices for Cooperative Educational Activities**

*Marco Sá, Faculty of Sciences Univeristy of Lisbon*

*Luis Carriço, Faculty of Sciences, University of Lisbon*

### **A Spatiotemporal Uncertainty Model of Degree 1.5 for Continuously Changing Data Objects**

*Byunggu Yu, University of Wyoming*

### **Distributed IPv6 Addressing Technique for Mobile Ad-hoc Networks**

*Dongkeun Lee, Konkuk University*  
*Keecheon Kim, Konkuk University*  
*Jaepil Yoo, Konkuk University*  
*Hyunsik Kang, Konkuk University*  
*Kyunglim Kang, Samsung Advanced Institute of Technology*

### **Statistical Buffering for Streaming Media Data Access in a Mobile Environment**

*Qing Li, City Univ. of Hong Kong*  
*Jian Zhai, City Univ. of Hong Kong*  
*Xiang Li, City Univ. of Hong Kong*

### **A Content Classification and Filtering Server for the Internet**

*Marcos Forte, Santo André Foundation*  
*Wanderley Lopes de Souza, Federal University of São Carlos*  
*Antonio Francisco do Prado, Federal University of São Carlos*

### **Semantically Enhanced Enforcement of Mobile Consumer's Privacy Preferences**

*Mahmoud Youssef, Arab Academy for Science and Technology*  
*Nabil R. Adam, Rutgers University*  
*Vijayalakshmi Atluri, Rutgers University*

### **Scheduling Dependent Items in Data Broadcasting Environments**

*Hao-Ping Hung, National Taiwan University*  
*Jen-Wei Huang, National Taiwan University*  
*Jiun-Long Huang, National Chiao Tung University*  
*Ming-Syan Chen, National Taiwan University*

## **Poster Papers**

### **Combining Speech and Pen Input for Effective Interaction in Mobile Geospatial Environments**

*Julie Doyle, University College Dublin*  
*Michela Bertolotto, University College Dublin*

### **Architectural Issues for a Location-aware Role-based Access Control System**

*Maria Luisa Damiani, University of Milan*  
*Elisa Bertino, Purdue University*

## **Model Transformation (MT)**

Track Co-Chairs:     Jean Bézivin, University of Nantes, France  
                          Alfonso Pierantonio, Università degli Studi dell'Aquila, Italy  
                          Antonio Vallecillo, Universidad de Malaga, Spain

### **Track Editorial**

#### **On the Architectural Alignment of ATL and QVT**

*Ivan Kurtev, INRIA - LINA, University of Nantes*  
*Frédéric Jouault, INRIA-LINA, University of Nantes*

#### **Transforming OCL Constraints: a Context Change approach**

*Jordi Cabot, UOC*  
*Ernest Teniente, UPC*

#### **Evaluation of Rule-based Modularization in Model Transformation Languages Illustrated with ATL**

*Ivan Kurtev, INRIA - LINA, University of Nantes*  
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### **Model Refactorings through Rule-Based Inconsistency Resolution**

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### **A Formal Framework to Generate XPDL Specifications from UML Activity Diagrams**

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### **Model Transformations for Hypertext Modeling on Web Information Systems**

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### **Simplifying Transformation of Software Architecture Constraints**

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### **Describing Dynamic Software Architectures using an Extended UML Model**

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### **Application Modelling using Reverse Engineering Techniques**

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### **Transformation of yEPC Business Process Models to YAWL**

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### **Reconciling Diagrams After Executing Model Transformations**

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### **An Approach to Refactoring of Executable UML Models**

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### **Advanced Model Transformation Language Constructs in the VIATRA2 Framework**

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*Jianmin Jiang, Chinese Academy of Sciences*

*Jinzhao Wu, Chinese Academy of Sciences*

*Donghuo Chen, Chinese Academy of Sciences*

### **ARCATS - A Scalable Compositional Analysis Tool Suite**

*Yung-Pin Cheng, National Taiwan Normal Univ.*

*Hong-Yi Wang, National Taiwan Normal Univ.*

*Yu-Ru Chen, National Taiwan Normal Univ.*

## **Trust, Recommendations, Evidence, and other Collaborative Know-how (TRECK)**

Track Co-Chairs: Jean-Marc Seigneur, University of Geneva, Switzerland

Christian Damsgaard Jensen, Technical University of Denmark, Denmark

### **Track Editorial**

### **Trust[ed| in] Computing, Signed Code and the Heat Death of the Internet**

*Jonathan A. Poritz, IBM ZRL*

### **Improving Collaborative Filtering with Trust-based Metrics**

*Jianshu Weng, Nanyang Technological University*

*Chunyan Miao, Nanyang Technological University*

*Angela Goh, Nanyang Technological University*

## **Trust-Enhanced Visibility for Personalized Document Recommendations**

*Claudia Hess, Bamberg University*

*Klaus Stein, Bamberg University*

*Christoph Schlieder, Bamberg University*

## **STRUDEL: Supporting Trust for Dynamic Emergence of peering coalitions**

*Daniele Quercia, University College London*

*Licia Capra, UCL*

*Manish Lad, University College London*

*Stephen Hailes, University College London*

*Saleem Bhatti, University College London*

## **Impact of Peer Incentive on the Dissemination of Polluted Content**

*Cristiano Costa, UFMG*

*Marisa Vasconcelos, UFMG*

*Jussara Almeida, UFMG*

*Virgilio Augusto, UFMG*

*Miranda Mowbray, HP Laboratories Bristol*

*Fabricio Benevenuto, UFMG*

## **Information Trustworthiness Evaluation Based on Trust Combination**

*Yanjun Zuo, University of North Dakota*

*Brajendra Panda, University of Arkansas*

## **A Fuzzy Model for Reasoning about Reputation in Web Services**

*Wanita Sherchan, Monash University*

*Seng W. Loke, Monash University*

*Shonali Krishnaswamy, Monash University*

## **BambooTrust: Practical Scalable Trust Management for Global Public Computing**

*Evangelos Kotsovinos, Deutsche Telekom Laboratories*

*Aled Williams, University of Cambridge*

## **Poster Papers**

### **Trust-Decisions on the Base of Maximal Information of Recommended Direct-Trust**

*Uwe Roth, University of Luxembourg*

*Volker Fusenig, University of Luxembourg*

## **Ubiquitous Computing (UC)**

Track Co-Chairs: Achilles Kameas, Hellenic Open University, Greece

George Roussos, University of London, UK

### **Track Editorial**

#### **Ubiquitous Presence Systems**

*Matthias Kranz, University of Munich*

*Paul Holleis, University of Munich*

*Albrecht Schmidt, University of Munich*

#### **BBQ: Group-Based Querying in a Ubiquitous Environment**

*Hong Va Leong, Hong Kong Polytechnic University*

*Gary Hoi Kit Lam, Hong Kong Polytechnic University*

*Stephen Chi Fai Chan, Hong Kong Polytechnic University*

#### **Domotic House Gateway**

*Paolo Pellegrino, Politecnico di Torino*

*Dario Bonino, Politecnico di Torino*

*Fulvio Corno, Politecnico di Torino*

**Hiding Complexity and Heterogeneity of the Physical World in Smart Living Environments**

*Maria Tortorella, University of Sannio*

*Gerardo Canfora, University of Sannio*

*Thierry Bodhuin, University of Sannio*

*Rosa Preziosi, University of Sannio*

**Poster Papers**

**Methods and Guidelines for the Design and Development of Domestic Ubiquitous Computing Applications**

*Lucia Terrenghi, LMU University of Munich*

*Albrecht Schmidt, LMU University of Munich*