



## The International ACM Conference on Management of Emergent Digital EcoSystems (MEDES'09)

### Final Program

	Tuesday Oct. 27, 2009	Wednesday Oct. 28, 2009			Thursday Oct. 29, 2009	Friday Oct. 30, 2009				
09:00-09:30 AM										
09:30-10:00 AM		Opening Session <i>(Auditorium)</i>			Keynote Talk 2 by Ernesto Damiani <i>(Auditorium)</i>			Session ST <i>(Room 1)</i>	Session INF - 2 <i>(Room 2)</i>	Session STUD - 2 <i>(Room 3)</i>
10:00-10:30 AM		Welcome Reception			Coffee Break			Coffee Break		
10:30-11:00 AM		Keynote Talk 1 by Eunika Mercier-Laurent <i>(Auditorium)</i>			Demo / Poster Session <i>(Auditorium)</i>			Session SN <i>(Room 1)</i>	Session GRIT <i>(Room 2)</i>	Session CS <i>(Room 3)</i>
11:00-11:30 AM		Session FDE - 1 <i>(Room 1)</i>	Session INF - 1 <i>(Room 2)</i>							
11:30-12:00 AM		Lunch			Lunch			Lunch		
12:00-12:45 AM		Lunch			Lunch			Lunch		
12:45-02:00 PM		Lunch			Lunch			Lunch		
02:00-02:30 PM	Registration	Tutorial by Peter Eklund <i>(Auditorium)</i>	Session FDE - 2 <i>(Room 1)</i>	Session DKM - 1 <i>(Room 2)</i>	Session SRV - 1 <i>(Room 3)</i>	Registration	Session MVW <i>(Room 1)</i>	Session MLS <i>(Room 2)</i>	Session STUD - 1 <i>(Room 3)</i>	Lyon City Hall Visit
02:30-03:00 PM										
03:00-03:30 PM										
03:30-04:00 PM		Coffee Break	Coffee Break							
04:00-04:30 PM		Session KRRS <i>(Room 1)</i>	Session DKM - 2 <i>(Room 2)</i>	Session SRV - 2 <i>(Room 3)</i>	Lachassagne Castle Visit (Wine Tasting)					
04:30-05:00 PM	Registration	Tutorial by Peter Eklund <i>(Auditorium)</i>				Registration	Lachassagne Castle Visit (Wine Tasting)			
05:00-05:30 PM										
05:30-06:00 PM										
06:00-06:30 PM										
06:30-07:00 PM		Lyon Sightseeing Cruise on the Rhone River <b>(Extra Conference Event)</b>			Conference Banquet					
07:00-07:30 PM		Lyon Sightseeing Cruise on the Rhone River <b>(Extra Conference Event)</b>			Conference Banquet					
07:30-10:30 PM		Lyon Sightseeing Cruise on the Rhone River <b>(Extra Conference Event)</b>			Conference Banquet					

## **Foundations of Digital EcoSystems - I (FDE-1)**

**The Importance of Culture in Digital Ecosystems: Managing Indigenous Research Data**

*Alex Byrne*

**Analysing the Evolution of a Digital Organization Eco-Systems (DOES)**

*Alessia D'Andrea, Fernando Ferri, Patrizia Grifoni, Tiziana Guzzo*

**Networks, Fractals and Complexity: Web-based Information Patterns (short paper)**

*Oluseyi Alaba*

## **Foundations of Digital EcoSystems - II (FDE-2)**

**Studying Network Dynamics in Digital Ecosystems**

*Maria-Chiara Caschera, Arianna D'Ulizia, Fernando Ferri, Patrizia Grifoni*

**Computing of Applied Digital Ecosystems**

*Gerard Briscoe, Philippe De-Wilde*

**Digital Ecosystems: Stability of Evolving Agent Populations**

*Philippe De-Wilde, Gerard Briscoe*

**Digital Ecosystems: Self-Organisation of Evolving Agent Populations (short paper)**

*Gerard Briscoe, Philippe De-Wilde*

## **Data and Knowledge Management - I (DKM-1)**

**Precomputing Queries for Personal Health Sensor Environments**

*Jun Liu, Mark Roantree*

**An Autonomous Agent Approach to Query Optimization in Stream Grids**

*Saikat Mukherjee, Srinath Srinivasa, Krithi Ramamritham*

**Data Mining Effect in Peer-To-Peer Queries Routing**

*Anis Ismail, Mohamed Quafafou, Gilles Nachouki, Mohammad Hajjar*

**Towards Viable Computer Systems: a Set Theory Interpretation of Ecological Dependence within Beer's Self-Organizing Viable System Model (short paper)**

*Ruth-Jean Thompson, Andrew-Graham Laws, Denis-John Reilly, Azzelarabe Taleb-Bendiab, David Llewellyn-Jones*

**Knowledge Sharing : an Index of Terminological Specificity (short paper)**

*Françoise Deloule*

## **Data and Knowledge Management - II (DKM-2)**

### **A Semantic Handling of Geological Modeling Workflows**

*Nabil Belaid, Yamine Ait-Ameur, Jean-François Rainaud*

### **Efficient Super-Peer-Based Queries Routing**

*Anis Ismail, Mohamed Quafafou, Gilles Nachouki, Mohammad Hajjar*

### **Semantic Coordination of P2P Collective Intelligence**

*Silvana Castano, Alfio Ferrara, Stefano Montanelli, Gaia Varese*

### **A Conceptual Model for Handling Personalized Hierarchies in Multidimensional Databases (short paper)**

*Yoann Pitarch, Anne Laurent, Pascal Poncelet*

### **Knowledge Creation in Agropedia: Towards a Methodology to Compare Peer Content to Certified Content (short paper)**

*Amritesh, Runa Sarkar*

## **Modelling Languages and Systems (MLS)**

### **AbstractERIA: a Web Language for Conceptual Metadata Integration and Abstraction in the Large**

*Matteo Palmonari, Carlo Batini*

### **Extended BPEL with Heterogeneous Authentication Mechanisms in Service Ecosystems**

*Pascal Bou-Nassar, Youakim Badr, Frédérique Biennier, Kablan Barbar*

### **Collective Intelligence System Engineering**

*Ioanna Lykourantzou, Dimitrios-J. Vergados, Vassili Loumos*

## **Knowledge Representation, Reasoning and Discovery (KRRD)**

### **Knowledge Extraction by Probabilistic Cognitive Structure Modeling using a Bayesian Network for Use by a Retail Service**

*Tsukasa Ishigaki, Yoichi Motomura, Masako Dohi, Makiko Kouchi, Masaaki Mochimaru*

### **Detecting User Types in Object Ranking Decisions**

*Xiaohui Lu, Markus Schaal, Sibel Adali, Anand-Kishore Raju*

### **Semantic Document Classification and Keyword Spotting in Digital Repositories (short paper)**

*Nikunj Yadav, Yanu Gupta, Manish Kumar, Ratna Sanyal*

### **Web Page Ranking based on Fuzzy and Learning Automata (short paper)**

*Zohreh Anari, Mohammad-Reza Meybodi, Babak Anari*

### **Efficient Linear Text Segmentation Based on Information Retrieval Techniques (short paper)**

*Roman Kern, Michael Granitzer*

## Multimedia and Virtual Worlds (MVW)

### **A Web-Based Interface to Design Information Visualization**

*Romain Vuillemot, Béatrice Rumpler*

### **Operational BI Platform for Video Analytics**

*Qiming Chen, Meichun Hsu, Rui Liu, Tao Yu, Qinghu Li, Weihong Wang*

### **Multimedia Sensor Networks: an Approach based on 3D Real-Time Reconstruction**

*Ahmed Mostefaoui, Benoît Piranda*

### **Information Architecture for Ubiquitous Ecologies (short paper)**

*Andrea Resmini, Luca Rosati*

### **Towards a Novel Approach to Multimedia Data Mixed Fragmentation (short paper)**

*Richard Chbeir, Dominique Laurent*

### **Digiplaza: a 2,5D Virtual Environment to Support the Sense of Locality of Geographic Communities using an Ontologic Approach (short paper)**

*Alberto Bucciero, Anna-Lisa Guido, Luca Mainetti*

## Information Retrieval (IR)

### **An Experimental Performance Comparison for Indexing Mobile Objects on the Plane**

*Spyros Sioutas, Kostas Tsichlas, George Papaloukopoulos, Yannis Manolopoulos*

### **CoSeNa : Context-based Search and Navigation System**

*Mario Cataldi, K.-Selçuk Candan, Claudio Schifanella, Maria-Luisa Sapino, Luigi Di-Caro*

### **Conference Knowledge Modeling for Conference-Video-Recordings Querying & Visualization**

*Maria Sokhn, Francesco Carrino, Elena Mugellini, Omar Abou-Khaled, Ahmed Serhrouchni*

### **End to End Evaluation of Impression Based Music Retrieval Service (short paper)**

*Najeh Hajlaoui*

## Services - I (SRV-1)

### **Web Services and Digital Ecosystem Support using Formal Concept Analysis**

*Peter Eklund, Tim Wray, Jon Ducrou*

### **A Digital Ecosystem for Boosting User-driven Service Business**

*Kimmo Karhu, Andrea Botero, Sami Vihavainen, Tingan Tang, Matti Hämäläinen*

### **Personalized Selection of Web Services for Mobile Environments: The m-Scrouitz Solution**

*Evangelos Sakkopoulos, Spyros Sioutas, Yannis Manolopoulos, Poulia Adamopoulou, Athanasios-K. Tsakalidis*

### **An Environment for Building, Exploring and Querying Academic Social Networks**

*Veselin Ganev, Zhaochen Guo, Diego Serrano, Brendan Tansey, Denilson Barbosa, Eleni Stroulia*

## Services - II (SRV-2)

### Assessing Success Factors of Selling Practices in Electronic Marketplaces

*Adriano-César-Machado Pereira, Diego-de-Moura Duarte, Wagner Meira-Jr., Paulo Góes*

### A SOAP Performance Comparison of Different WSRF Implementations

*Roland Kübert, Hai-Lang Thai, Axel Tenschert*

### A Model for Decision Support in Business-Driven IT Service Portfolio Management using SLA-Dependent Criteria and under Uncertainty

*Magno Queiroz, Antônio Moura, Jacques Sauvé, Claudio Bartolini, Marianne Hickey*

### Convergence of Grids and Web Services: Current Challenges and Future Directions (short paper)

*Aisha Naseer, Lampros Stergioulas*

### Recursive Multi-Agent System for Dynamic and Adaptative Web Services Composition (short paper)

*Anissa Abrougui, Annabelle Mercier, Michel Occello, Marc-Philippe Huget*

## Social Networks (SN)

### A Distributed Algorithm for Simultaneous Group Communication

*Susmit Bagchi*

### Toward Hybrid WSN Architectures for Monitoring People at Home

*Youssouf Zatout, Eric Campo, Jean-François Llibre*

### Converging Web and IMS Services: Stakes and Solution Proposals

*Karim Sbata, Houda Khrouf, Sabine Zander, Monique Becker*

### Common Ground Building in an Argumentation-based Online Collaborative Environment (short paper)

*Ali Gürkan, Luca Iandoli*

## Infrastructure - I (INF-1)

### Innovative Interoperability Framework for Enterprise Applications within Virtual Enterprises

*Nicolas Figay, Parisa Ghodous*

### An ACO/MAS Joint Approach to Manage Communications in Wireless Sensor Networks

*Nacer Hamani, Jean-Paul Jamont, Michel Occello, Mouloud Koudil*

### Towards a RESTful Infrastructure for Digital Ecosystems (short paper)

*Alexandros Marinos, Sotiris Moschoyiannis, Paul Krause*

## Infrastructure - II (INF-2)

### Smart Ring: Utilizing Coverage Holes for Mobile Target Tracking

*Chia-Ching Ooi, Christian Schindelhauer*

### Competences Management in an Organizational Learning Context

*Adeline Leblanc, Marie-Hélène Abel*

### Building an Efficient P2P Overlay for Energy-Level Queries in Sensor Networks

*Spyros Sioutas, Konstantinos Oikonomou, George Papaloukopoulos, Michalis Xenos, Yannis Manolopoulos*

### Accuracy-Driven Synchronization Protocol: Implementation and Experimental Evaluation

*Hussein Khaleel, Mirko Franceschinis, Riccardo Tomasi, Marina Mondin*

## Security and Trust (ST)

### **Towards a Global Online Reputation**

*Hui Li, Morad Benyoucef, Gregor-v. Bochmann*

### **The Crucial Role of User's Perceived Trust in the Orchestration and Adoption of IT-Ecosystems**

*Klaus-Peter Wiedmann, Nadine Hennigs, Marc-Oliver Reeh, Dieter Varelmann*

### **Distributed Support for Public and Private Accountability in Digital Ecosystems**

*Paul Malone, Brendan Jennings*

### **Robust Audio-Visual Speaker Identification Using a Modified Score-based Reliability in Modality Integration (short paper)**

*Md. Tariquzzaman, Jin-Young Kim, Seung-You Na*

## Case Studies (CS)

### **PreScan: Towards Automating the Preservation of Digital Objects**

*Yannis Marketakis, Makis Tzanakis, Yannis Tzitzikas*

### **Assessing Digital Preservation Frameworks: the Approach of the SHAMAN Project (short paper)**

*Perla Innocenti, Seamus Ross, Elena Maceciuvite, Tom Wilson, Jens Ludwig, Wolfgang Pempe*

### **Constructing Business Ecosystem from Firm Perspective: Cases in High-Tech Industry (short paper)**

*Ke Rong, Yongjiang Shi*

### **A Generic Service System for Knowledge-Intensive Service Firms (short paper)**

*Yong Peng, Youakim Badr, Frédérique Biennier*

### **An Ecosystem for User Centric Learning – Revolution or Evolution? (short paper)**

*Thomas Kirkham, Stuart Wood, Sandra Winfield, Kirstie Coolin, Angela Smallwood*

### **Evolving Knowledge Based Product Lifecycle Management from a Digital Ecosystem to Support Automated Manufacturing (short paper)**

*M. Baqar Raza, Thomas Kirkham, Robert Harrison, Radmehr-P. Monfared, I.Haq, Stuart Wood*

## Demo/Poster (DP)

### **Argumentative Agents to Handle the Conflicts between Web Services: A Prototype**

*Sattanathan Subramanian, Guttorm Sindre*

### **Integrated Service Engineering Workbench: Service Engineering for Digital Ecosystems**

*Gregor Scheithauer, Matthias Heinrich, Veli Bicer, Matthias Winkler, Konrad Voigt, Anja Strunk*

### **Implementing an Online Help Desk System based on Conversational Agent**

*Alisa Kongthon, Sarawoot Kongyoung, Chatchawal Sangkeettrakarn, Choochart Haruechaiyasak*

### **Advance Traffic Information System in Bangkok: A Success Story Case**

*Wasan Pattara-Atikom, Kannikar-Siriwong-Na Ayutaya*

### **Learning Path to an Emergent Ecosystem: the Brazilian Public Software Experience**

*Angela-Maria Alves, Giancarlo-Nuti Stefanuto, Clênio-Figueiredo Salviano, Paula Drummond, Corinto Meffe*

### **A Self-Adaptive Test Framework for Concurrent Programs**

*Manna Wu, Bo Zhou, Wei Shi*

### **Protocol for a Systematic Literature Review of Research on the Wikipedia**

*Chitu Okoli, Kira Schabram*

## **Student Workshop 1 (STUD-1)**

### **Towards Semi-Automatic Generation of Training Scenarios in Industrial Automated Systems**

*Saher Arnous, Arnaud Leleve, Khalid Kouiss, Patrick Prevot*

### **An Approach for Business Transaction Management**

*Mounir Chnini, Nicolas Lumineau*

### **Complex Data Integration into an Active XML Repository**

*Rashed Salem*

### **Replica Update Strategy in Mobile Ad Hoc Networks**

*Mohamad-Motasem Nawaf, Zeina Torbey*

### **Robustness of Emerged Community in Social Network**

*Slimane Lemmouchi, Mohammed Haddad, Hamamache Kheddouci*

### **Decentralized Log Event Correlation Architecture**

*Nabil Hammoud*

## **Student Workshop 2 (STUD-2)**

### **Comparing Semantic Associations in Sentences and Paragraphs for Opinion Detection in Blogs**

*Malik-Muhammad-Saad Missen, Mohand Boughanem, Guillaume Cabanac*

### **Compact Representation of Multimedia Files for Indexing, Classification and Retrieval**

*Sajad Shirali-Shahreza*

### **Geographic Data Integration to Support Web GIS Development**

*André-Rocha Coimbra*

### **Software Ecosystems and E-Learning: Recent Developments and Future Prospects (short paper)**

*Oskar Pettersson*

## **GRIT Workshop (GRIT)**

### **Supporting Learning Scenario Authoring for Electronic Laboratories**

*Arnaud Leleve, Saher Arnous, Patrick Prevot*

### **On Physical Experiments and Individual Assessment of Laboratory Work in Engineering Education**

*Ingvar Gustavsson, Kristian Nilsson, Thomas Lagö*

### **A Service Oriented Framework to Set up Flexible and Distributed Data Acquisition and Control Systems**

*Paolo Buschiazzo, Anna-Marina Scapolla*