WETICE 2014

UNIVERSITÁ DEGLI STUDI DI PARMA

IEEE Advancing Technology for Humanity

The 23rd IEEE International Conference on

Enabling Technologies: Infrastructures for Collaborative Enterprises

University Campus, Parma, Italy

June 23rd-25th, 2014

http://www.wetice.org
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IEEE International Conference on Enabling Technologies: Infrastructure for Collaborative Enterprises

June 23rd-25th, 2014
University Campus
Parma – Italy

WETICE 2014 is co-sponsored by IEEE Computer Society and West Virginia University.

WETICE 2014 is supported by the IEEE Systems, Man, and Cybernetics Society Italian Chapter, Università degli Studi di Parma and Dipartimento di Matematica e Informatica dell'Università degli Studi di Parma.

http://www.wetice.org

List of Tracks

ACEC	12th Track on Adaptive Computing (and Agents) for Enhanced Collaboration
AROSA	4th Track on Adaptive and Reconfigurable Service-oriented and component-based Applications and Architectures
CAGing	3rd Track on Collaborative and Autonomic Green Computing
CDCGM	4th Track on Convergence of Distributed Clouds, Grids and their Management
CoMetS	4th Track on Collaborative Modeling & Simulation
COPECH	5th Track on Collaboration tools for Preservation of Environment and Cultural Heritage
CPS	4th Track on Capacity driven Processes and Services for Cyber Physical Society
CSP	3rd Track Conference on Collaborative Software Processes
FVSBS	2nd Track on Formal Verification of Service Based Systems
MADYNE	3rd Track on Management of Dynamic Networked Enterprises
PASCS	1st Track on Privacy and Accountability for Software and Cloud Services
PROMASC	3rd Track on Provisioning and Management of Service Oriented Architecture and Cloud Computing
VSC	2nd Track on Validating Software for Critical Systems
Web2Touch	6th Track on Modeling the Collaborative Web Knowledge

Committees

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Venue of the Conference

The easiest and safest way to reach the venue of the conference is by bus number 7 or 21 from the city train station.

Normally busses take about 20 minutes from the train station to the University Campus. Busses number 21 are faster and they are often preferred.

Get off the bus at last stop, number 19 on the map, to get to the conference venue.

Map of the University Campus

Centro S. Elisabetta (number 04 on the map)

La Torre (number 20 on the map)

The plenary sessions of the conference, tracks ACEC, CoMeTS, CPS, CSP, FVSBS, PASCS, VSC, Web2Touch, lunches, and coffee breaks are all held at *Centro S. Elisabetta*, number 04 on the map.

Tracks AROSA, PROMASC, CDCGM, CAGing, COPECH, and MADYNE are held at the second floor of building *La Torre*. It is the tallest building of the University Campus and it is just in front of the last stop of busses 7 and 21, number 19 on the map. Building *La Torre* is number 20 on the map.

The University Campus provides facilities to ease the stay of students and visitors. It offers two canteens, number 2 and 21 on the map. Canteens offer local food at lunchtime–between 12pm and 2pm–and they are freely accessible to visitors.

The University Campus also offers two bars connected to the two canteens that serve typical Italian breakfasts–*cappuccino e cornetto*–and that are active all day long.

A typical Italian newspaper shop that also sells bus tickets is located very close to the main bus stop of the University Campus, which is also the last stop of busses number 7 and 21.

WiFi Network Access

Participants to the conference are granted a personal access to the WiFi network of the University. Each conference bag contains a ticket with the personal credentials needed to connect to the network.

To connect to the network using the personal credentials found in the conference bag:

SSID: **UNIPR**

Username: **wetice14-*nnnn*@UNIPR-WIFI** (*nnnn* is a personal identification code)

Password: as shown in the ticket found in the conference bag

Network connectivity can be obtained using an **eduroam** access profile by connecting with the following parameters:

SSID: **UNIPR-WPA** (not eduroam even if the SSID is available)

Authentication: **WPA/WPA2** with 802.1X protocol

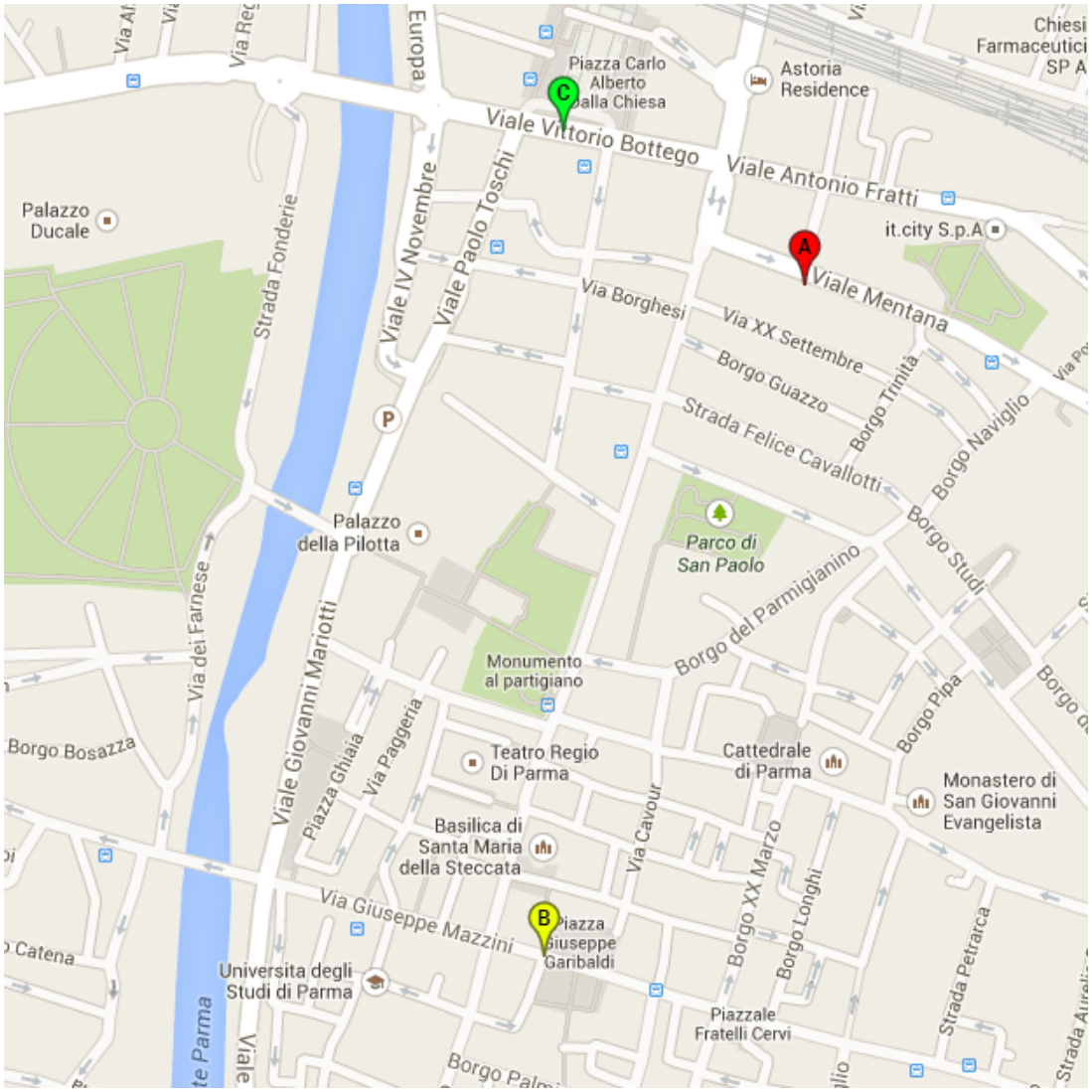
Encryption: **AES** and/or **TKIP**

Welcome Reception and Social Dinner

The welcome reception of the conference is on June 23rd and it is anticipated by an historic walk in the city center, where the historic amenities of ancient Parma are discovered.

The walk starts at 6:30pm from *Piazza Garibaldi*, the main square of the city, label B on the map below.

After the historic walk, the welcome reception of the conference is held at *Hotel Maria Luigia*, label A on the map, starting at 8pm.



The social dinner of the conference is scheduled for June 24th at the *Hotel Maria Luigia*, label A on the map, where the famous *Maxim's Restaurant* is located. The social dinner starts at 8pm.

All social events are scheduled in places close to the city train station, label C on the map, where busses from/to the University Campus stop regularly.

Invited Talk – June 23rd, 2014

Wearable & Mobile Systems for Improved Service Delivery & Collaboration

Markus Aleksy

Senior Scientist

ABB, Germany

Recent initiatives, such as Industry 4.0, are focusing on developing smart factories that provide flexible, resource-efficient, and ergonomic capabilities. Cyber-Physical Systems (CPS) and the Internet of Things (IoT) are the building blocks to provide such capabilities. In order to keep such capabilities at peak performance, it is crucial to plan at an early stage how to provide through-life service.

To enable those through-life services, wearable and mobile systems can provide a significant impact on implementing service solutions. They support creating, accessing, processing, storing, and communicating information without being constrained to a single location. Moreover, sensor technologies provide the mobile worker with the opportunity to measure environmental condition. The development of such systems is however complex and difficult task in such context-awareness environment. 'Smart' and 'context-aware' systems although great for end-users are challenging to design, maintain, and integrate in order to provide non-intrusive system with user-friendly interfaces. Furthermore, the coverage of such applications in the service domain requires the utilization of appropriate techniques to equipment localization and identification, adaptation, collaboration with peers and remote experts, as well as considering the current limitations of such devices.

Invited Talk – June 25th, 2014

Infusing Self-awareness into Turing Machine–A New Path to Cognitive Distributed Computing

Dr. Rao Mikkilineni

Chief Scientist

C3 DNA Inc., California, USA

Turing's formulation of computation in terms of functions to process information using simple read, compute (change state) and write instructions combined with the introduction of program, data duality by von Neumann has allowed Information Technology (IT) to model, monitor, reason about and control any physical system. Many-core processors and virtualization technologies with on-demand resource provisioning, application agility and high-bandwidth communications have made web-scale services available anywhere at any time. However, as the scale of distributed systems increases, so are indications pointing to the limitations of the current computing model:

- Fluctuations play a major role; for example, Google is experiencing "emergent behavior" in their scheduling algorithms as the number of components increases.
- As the computing workloads fluctuate wildly, attempts to improve resiliency of the services result in increased complexity. 70% of IT budget is consumed in assuring availability, performance and security.
- More importantly, current models of computation, Computationalism (based on Turing machine) and Connectionism (modelled after neural networks) both are inadequate to model cognitive processes involving dynamic coupling between various elements, where each change in one element continually influences every other element's direction of change.

In this talk, we discuss a new autonomic computing approach (first proposed in WETICE 2010) demonstrating self-management of the computer and the computed without disturbing the current Turing machine implementations to enable highly scalable distributed computing systems. The new approach uses a non-von Neumann parallel implementation of a managed Turing machine with a signaling network overlay to address some of the limitations of both Computationalism and Connectionism. The architecture provides a mechanism for injecting sensors and actuators into a Turing Machine and allows implementing autonomic distributed computing where the computers and the programs they execute are orchestrated to achieve the overall intent while simultaneously optimizing the use of available distributed computing resources. We present an implementation of cognitive cloud services that provides service provisioning on-demand, self-repair, auto-scaling, live-migration and end-to-end service transaction security using a popular web services stack deployed across distributed servers (virtualized or not). We argue that the network of networks (with scale-invariant composition) using the new computing, management and programming models allows implementing dynamic processes with an intent and has profound implications to large scale distributed structures where the computer and the computed work in harmony to address the inherent large-scale fluctuations.

WETICE 2014 Program at a Glance

	Day 1 (June 23rd)	
9:00am-9:30am	Opening	
9:30am-10:30am	Invited talk – Markus Aleksy	
10:30am-11:00am	Coffee break	
11:00am-12:00pm	CPS	AROSA
12:00pm-1:00pm	CPS	AROSA
1:00pm-2:00pm	Lunch	
2:00pm-3:00pm	ACEC	AROSA
3:00pm-4:00pm	ACEC	AROSA
4:00pm-4:30pm	Coffee break	
4:30pm-5:30pm	CSP	AROSA
	Historic walk and welcome reception (city center)	
	Centro S. Elisabetta	*La Torre*

	Day 2 (June 24th)	
9:00am-9:30am	Web2Touch	AROSA
9:30am-10:30am	Web2Touch	PROMASC
10:30am-11:00am	Coffee break	
11:00am-12:00pm	Web2Touch	CDCGM
12:00pm-1:00pm	Web2Touch	CDCGM
1:00pm-2:00pm	Lunch	
2:00pm-3:00pm	CoMeTS	CDCGM
3:00pm-4:00pm	CoMeTS	CDCGM
4:00pm-4:30pm	Coffee break	
4:30pm-5:30pm	Executive committee meeting	
	Social dinner (Hotel Maria Luigia)	
	Centro S. Elisabetta	*La Torre*

	Day 3 (June 25th)	
9:30am-10:30am	Invited talk – Rao Mikkilineni	
10:30am-11:00am	Coffee break	
11:00am-12:00pm	VSC	COPECH
12:00pm-1:00pm	VSC+FVSBS	MADYNE+CAGing
1:00pm-2:00pm	Lunch	
2:00pm-3:00pm	PASCS	
3:00pm-4:00pm	Closing session	
	Centro S. Elisabetta	*La Torre*

ACEC 2014 Track Program

Day 1 (June 23rd), Centro S. Elisabetta	
2:00pm-2:20pm	Damian Clarke, Iman Saleh and M. Brian Blake. *Modelling Service Workflow Outcomes by Assessing the Underlying Message Flows*.
2:20pm-2:40pm	Dhaminda Abeywickrama, Nicklas Hoch and Franco Zambonelli. *An Integrated Eclipse Plug-in for Engineering and Implementing Self-Adaptive Systems*.
2:40pm-3:00pm	Elli Rapti, Anthony Karageorgos and Georgios Ntalos. *Adaptive Constraint and Rule-based Product Bundling in Enterprise Networks*.
3:00pm-3:20pm	Abdallah Namoun, Javad Akhlaghinia and Usman Wajid. *Carbon Efficient Transport Management Using Multi-Agent System*.
3:20pm-3:40pm	Mouna Ben Said and Yessine Hadj Kacem. *A Model driven approach for the development of fine-grain self-adaptive multitask and networked RTE systems*.
3:40pm-4:00pm	Federico Bergenti, Agostino Poggi and Michele Tomaiuolo. *Supporting Social Networks with Agents*.

AROSA 2014 Track Program

Day 1 (June 23rd), La Torre	
11:00am-11:30am	Afef Mdhaffar, Riadh Ben Halima, Mohamed Jmaiel and Bernd Freisleben. *CEP4Cloud: Complex Event Processing for Self-Healing Clouds*.
11:30am-12:00pm	Nguyen Ngoc Chan and Walid Gaaloul. *Querying Services based on Composition Context*.
12:00pm-12:30pm	Zohra Saoud, Noura Faci, Zakaria Maamar and Djamal Benslimane. *A Fuzzy Clustering-based Credibility Model for Trust Assessment in a Service-oriented Architecture*.
12:30pm-1:00pm	Imed Abbassi and Nejib Ben Hadj-Alouane. *Combining Dynamic Workflow and Transactional Semantics using a Pattern-based Approach*.
2:00pm-2:30pm	Brahim Djoudi, Chafia Bouanaka and Nadia Zeghib. *Model Checking Pervasive Context-Aware Systems*.
2:30pm-3:00pm	K. M. Imtiaz-Ud-Din and Dr. Mohammad Ullah Khan. *Runtime Adaptation of End-User Composed Collaborative Services*.
3:00pm-3:20pm	Houda Khlif, Hatem Hadj Kacem, Saùl E. Pomares, Cédric Eichler, Ahmed Hadj Kacem and Alberto C. Simon. *A Graph Transformation-based Approach for the Validation of Checkpointing Algorithms in Distributed Systems.*
3:20pm-3:40pm	Wilson Akio Higashino, Cédric Eichler, Miriam A. M. Capretz, Thierry Monteil, Maria Beatriz F. de Toledo and Patricia Stolf. *Automatic Query Optimization for Complex Event Processing*.
3:40pm-4:00pm	Guillaume Dugue, Mohamed Oulmahdi and Christophe Chassot. *Design Principles of a Service-oriented and Component-based Autonomic Transport Layer*.
4:30pm-4:50pm	Aymen Kamoun and Saïd Tazi. *A Semantic Role-based Access Control for Intra and Inter-Organization Collaboration*.
4:50pm-5:10pm	Mohamed Lamine Jellad and Maha Khemaja. *Using an SWS based Integration Approach for Learning Management Systems Adaptation and Reconfiguration*.

5:10pm-5:30pm	Imene Lahyani, Mohamed Jmaiel and Christophe Chassot. *Analytical Decisional Model for Publish/Subscribe Systems on MANET*.
Day 2 (June 24th), La Torre	
9:00am-9:20am	Tarek Zernadji, Chouki Tibermacine and Foudil Cherif. *Quality-driven Design of Web Service Business Processes*.
9:20am-9:40am	Maha Boussabbeh, Mohamed Tounsi, Ahmed Hadj Kacem and Mohamed Mosbah. *Enhancing Proofs of Local Computations Through Formal Event-B Modularization*.

CAGing 2014 Track Program

Day 3 (June 25th), La Torre	
12:00pm-12:20pm	Violaine Villebonnet and Georges Da Costa. *Thermal-aware Cloud Middleware to Reduce Cooling Needs*.

CDCGM 2014 Track Program

Day 2 (June 24th), La Torre	
11:00am-11:20am	Eugene Eberbach and Rao Mikkillineni. *Cloud Computing with DNA Cognitive Architecture in the Context of Turing's "Unsinkable" Titanic Machine*.
11:20am-11:40am	Rao Mikkilineni and Giovanni Morana. *Infusing Cognition into Distributed Computing*.
11:40am-12:00pm	Claudia Canali and Riccardo Lancellotti. *Balancing Accuracy and Execution Time for Similar Virtual Machines Identification in IaaS Cloud*.
12:00pm-12:20pm	Matthias Steinbauer and Gabriele Kotsis. *Towards Cloud-based Distributed Scalable Processing over Large-scale Temporal Graphs*.
12:20pm-12:40pm	Alessandra De Benedictis, Massimiliano Rak, Mauro Turtur and Umberto Villano. *Cloud-aware Development of Scientific Applications*.
12:40pm-1:00 pm	Marco Di Sano. *A reporting/analysis system to support BIaaS*.
2:00pm-2:20pm	Fabrizio Messina, Giuseppe Pappalardo, Domenico Rosaci, Corrado Santoro and Giuseppe M.L. Sarnè. *An Agent based Negotiation Protocol for Cloud Service Level Agreements*.
2:20pm-2:40pm	Izaias de Faria, Mario Dantas and Miriam Capretz. *Network andEnergy-Aware Resource Selection Model for Opportunistic Grids*.
2:40pm-3:00pm	Wilson A. Higashino, Miriam A. M. Capretz and Maria Beatriz F. de Toledo. *Evaluation of Particle Swarm Optimization Applied to Grid Scheduling*.
3:00pm-3:20pm	Ilias Savvas and Georgia Sofianidou. *Parallelizing K-Means for 1-d Data Using MPI.*
3:20pm-3:40pm	Felipe Maia, Francisco Silva and Igor Ripardo. *DC2S: A Content Management Infrastructure for Distributed Collaborative Environments*.
3:40pm-4:00pm	Christian Napoli, Giuseppe Pappalardo and Emiliano Tramontana. *Improving Files Availability for BitTorrent Using a Diffusion Model*.

CoMetS 2014 Track Program

Day 2 (June 24th), Centro S. Elisabetta	
2:00pm-2:20pm	Konstantinos Kokkinos, Nicholas Samaras, Athanasios Loukas and Nikitas Mylopoulos. *A Collaborative Approach to Environmental Modeling*.
2:20pm-2:40pm	Pierpaolo Loreti, Lorenzo Bracciale and Giuseppe Bianchi. *Simulating the Statistics of the First Meetings using Dynamic "Open Environments"*.
2:40pm-3:00pm	Paolo Bocciarelli, Andrea D'Ambrogio, Andrea Giglio, Emiliano Paglia and Daniele Gianni. *A Transformation Approach to Enact the Design-Time Simulation of BPMN Models*.
3:00pm-3:20pm	Claudio Gargiulo, Donato Pirozzi, Vittorio Scarano and Giuseppe Valentino. *A Platform to Collaborate around CFD Simulations*.
3:20pm-3:40pm	Claus Ballegaard Nielsen, Kenneth Lausdahl and Peter Gorm Larsen. *Distributed Simulation of Formal Models in System of Systems Engineering*.
3:40pm-4:00pm	Daniele Gianni, Paolo Bocciarelli and Andrea D'Ambrogio. *Referencing Capabilities for Collaborative Engineering of Conceptual Process Modeling with Object-Role Modeling*.

COPECH 2014 Track Program

Day 3 (June 25th), La Torre	
11:00am-11:20am	Michela Basili and Maurizio De Angelis. *Equipment Isolation Systems by Neans of Semi Active Control Devices*.
11:20am-11:40am	Raffaello Brondi and Marcello Carrozzino. *Fostering Collaboration among Restoration Professionals using Augmented Reality*.
11:40am-12:00pm	Alessandra Basili, Federica Palumbo and Walter Liguori. *NFC Smart Tourist Card: Combining Mobile and Contactless*.

CPS 2014 Track Program

Day 1 (June 23rd), Centro S. Elisabetta	
11:00am-11:20am	Sami Bhiri. *Capability Annotation of Actions based on their Textual Descriptions*.
11:20am-11:40am	Khaled Gaaloul. *A Dynamic Approach for Advanced Security Mechanisms supporting Task Delegation*.
11:40am-12:00pm	Christophe Guyeux, Abdallah Makhoul and Jacques Bahi. *A Security Framework for Wireless Sensor Networks: Theory and Practice*.
12:00pm-12:20pm	Hind Benfenatki, Catarina Ferreira Da Silva, Aîcha-Nabila Benharkat and Parisa Ghodous. *Cloud-based Business Applications Development Methodology*.
12:20pm-12:40pm	Michael Mrissa, Lionel Médini and Jean-Paul Jamont. *Semantic Discovery and Invocation of Functionalities for the Web of Things*.
12:40pm-12:50pm	Stefania Monica and Gianluigi Ferrari. *Accurate Indoor Localization with UWB Wireless Sensor Networks*.
12:50pm-13:00pm	Rana Chamsi Abu Quba, Salima Hassas, Usama Fayyad and Hammam Chamsi. *From a "Cold" to a "Warm" Start in Recommender systems–iSoNTRE the Social Network Transformer into Recommendation Engine.*

CSP 2014 Track Program

Day 1 (June 23rd), Centro S. Elisabetta	
4:30pm-4:50pm	Lars Bendix and Christian Pendleton. *Collaboration in the Absence of Communication*.
4:50pm-5:10pm	Amina Magdich and Yessine Hajkacem. *A UML/MARTE-based Design Pattern for Semi-Partitioned Scheduling Analysis*.
5:10pm-5:30pm	Rahma Bouaziz, Slim Kallel and Bernard Coulette. *A Collaborative Process for Developing Secure Component based Applications*.

FVSBS 2014 Track Program

Day 3 (June 25th), Centro S. Elisabetta	
12:40pm-1:00pm	Imed Abbassi and Nejib Ben Hadj-Alouane. *Modeling and Verifying the Transactional and QoS Aware Dynamic Web Services Composition using Event-B*.

MADYNE 2014 Track Program

Day 3 (June 25th), La Torre	
12:20pm-12:40pm	Ikbel Guidara, Tarak Chaari, and Mohemd Jmail. *An Efficient Service Selection Approach with Time-Dependent QoS*.
12:40pm-1:00pm	Saoussen Cheikhrouhou, Slim Kallel, M. Jmaiel. *Towards a Verification of Time-centric Business Process Models*.

PASCS 2014 Track Program

Day 3 (June 25th), Centro S. Elisabetta	
2:00pm-2:20pm	Nadia Bennani, Khouloud Boukadi and Chirine Ghedira. *A Trust Management Solution in the Context of Hybrid Clouds*.
2:20pm-2:40pm	Kais Klai, Nawel Hamdi and Nejib Ben Hadj-Alouane. *On-The-Fly Checking of Opacity in Critical Systems*.
2:40pm-3:00pm	Ronan-Alexandre Cherrueau and Mario Südholt. *Enforcing Expressive Accountability Policies*.

PROMASC 2014 Track Program

Day 2 (June 24th), La Torre	
9:30am-10:00am	Gianmario Motta, Linlin You, Nicola Sfondrini, Daniele Sacco and Tianyi Ma. *Service Level Management (SLM) in Cloud Computing - Third Party SLM Framework*.
10:00am-10:30am	Hamza Sahli, Chafia Bouanaka and Ahmed Taki Eddine Dib. *Towards a Formal Model for Cloud Computing Elasticity*.

VSC 2014 Track Program

Day 3 (June 25th), Centro S. Elisabetta	
11:00am-11:20am	Rosario Giunta, Giuseppe Pappalardo and Emiliano Tramontana. *A Redundancy-based Attack Detection Technique for Java Card Bytecode*.

11:20am-11:40am	Salvatore Cristofaro, Domenico Cantone and Emiliano Tramontana. *Effective Memory Fault Injection Attacks: Formalization and Properties*.
11:40am-12:00pm	Giuseppe De Ruvo and Antonella Santone. *An Eclipse-based Editor to Support LOTOS Newcomers*.
12:00pm-12:20pm	Sohaib Ahmad, Osman Hasan and Umair Siddique. *Formal Reasoning about Molecular Pathways*.
12:20pm-12:40pm	Andrea Fornaia, Andrea Calvagna and Emiliano Tramontana. *Assessing the Correctness of JVM Implementations*.

Web2Touch 2014 Track Program

Day 2 (June 24th), Centro S. Elisabetta	
9:00am-9:10am	Opening
9:10am-9:30am	Xavier Aimé and Jean Charlet. *Knowledge Engineering or Conformism Engineering?*
9:30am-9:50am	Júlio Dos Reis, Marcos Da Silveira, Duy Dinh, Cédric Pruski and Chantal Reynaud. *Requirements for Implementing Mappings Adaptation Systems*.
9:50am-10:10am	Giuseppe De Ruvo and Antonella Santone. *A Novel Methodology Based on Formal Methods for Analysis and Verification of Wikis*.
10:10am-10:30am	Nicoletta Dessì, Emanuele Pascariello and Barbara Pes. *Integrating Ontological Information About Genes*.
11:00am-11:20am	Angelo Di Iorio, Davide Rossi and Elisa Turrini. *Exploiting Semantic Knowledge in KnowBest*.
11:20am-11:40am	André Grégio, Rodrigo Bonacin, Olga Nabuco, Paulo Lício de Geus, Vitor Afonso and Mario Jino. *Ontology for Malware Behavior: A Core Model Proposal*.
11:40am-12:00pm	Mariagrazia Fugini, George Hadjichristofi and Mahsa Teimourikia. *Security Modeling for Dynamic Risk Management*.
12:00pm-12:20pm	Maurizio Atzori and Andrea Dessi. *Ranking DBpedia Properties*.
12:20pm-12:40pm	Rodrigo Bonacin, Olga Nabuco and Ivo Pierozzi. *Modeling the Impacts of Agriculture on Water Resources: Semantic Interoperability Issues*.
12:40pm-1:00pm	Silvio Cardoso, Kleberson Serique, Flor Amanqui, Dilvan Abreu and José Laurindo Santos. *A Gazetteer for Biodiversity Data as a Linked Open Data Solution*.