

Monday, September 8th, 2014

**1st International Workshop on
AUTONOMIC CLOUD CYBERSECURITY
Sesar.di.unimit.it/ACC2014/**

8:30 - 5:00 pm	CAC Registration and Check-in
9:30 - 9:40 am	Welcome Remarks by ACC workshop organizers
9:40 - 11:00 am	Keynote: Cloud-Centric Assured Information Sharing Dr. Bhavani Thuraisingham, The University of Texas at Dallas
11:00 - 11:30 am	COFFEE BREAK
11:30 am - 01:00 pm	Presentations: <ul style="list-style-type: none">• <i>Towards Malware Inspired Cloud Self-Protection</i> - Elhadj Benkhelifa, and Thomas Welsh, Staffordshire University, UK.• <i>Energy-Aware Autonomic Framework for Cloud Protection and Self-Healing</i> - Juan J. Villalobos, Ivan Rodero, and Manish Parashar, Rutgers University, US.• Intelligent Security Services Offering for Automatic Self-Protection on Cloud (Project: BT Intelligent Protection) - Fadi Ali El Moussa, British Telecom (BT), UK.
01:00 - 2:00 pm	LUNCH
2:00 - 3:30 pm	Cloud Cybersecurity Challenges Organizer: Salim Hariri, University of Arizona, US. <ul style="list-style-type: none">• <i>Automated and Scalable Infrastructure for Hacker IRC Collection</i> - Karan Chadha, Victor Benjamin, Youssif Al-Nashif, Salim Hariri, Hsinchun Chen, University of Arizona, US.• Ontology-Driven Cyber-Security Threat Assessment Based on Sentiment Analysis - Dough Lundquist, Kunpeng Zhang, and Aris Ouksel, University of Illinois at Chicago, US. Cloud Security Projects in Europe <ul style="list-style-type: none">• An accountability framework supporting evidence in cloud supply chains (EU Project: Cloud Accountability Project (A4CLOUD)) - Massimo Felici, Hewlett-Packard Laboratories, UK Novel Certification of Cloud Service Security: The CUMULUS approach (EU Project: Certification of Cloud Service infrastructure for Multi-Layer cloud Services (CUMULUS)) - George Spanoudakis, City University of London, UK
3:30 - 4:00 pm	TEA BREAK

4:00 - 5:00 pm	Workshop Summary and Closing Remarks
Tuesday, September 9th, 2014	
9:00 - 9:30 am	Welcome Remarks by FAS* conferences organizers
9:30 - 10:30 am	Keynote: "Scientific Big Data Analytics – Practice and Experience" – Morris Riedel, University of Iceland
10:30 - 11:00 am	COFFEE BREAK
Session I – Fault Tolerance Chair: Salim Hariri, University of Arizona	
11:00 am - 01:30 pm	Presentations: <ul style="list-style-type: none"> • <i>CUDSwap: Tolerating Memory Exhaustion Failures in Cloud Computing</i>, Shivakant Mishra, and Jose Antonio Navas Molina, University of Colorado at Boulder, US. • <i>Sequential Fault Monitoring</i>. Cecile Germain, and Dawei Feng, Universite Paris Sud, France. • <i>Towards Reliability and Performance Prediction of Autonomic Systems with Self-Healing and Protection</i>, Nabila Salmi, Mehdi Sliem, and Malika Loualalen, University of Science and Technology Houari Boumediene (USTHB), Algeria. • <i>Autonomic Resilient Cloud Management (ARCM): Design and Evaluation</i>, Farah Fargo, Salim Hariri, Youssif Al-Nashif, and Cihan Tunc, University of Arizona, US. • <i>A Look at Adaptability for Service Workflows</i>, Onyeka Ezenwoye, and Masoud Sadjadi, Georgia Regents University, US.
01:00 - 2:00 pm	LUNCH
2:00 - 3:00 pm	Keynote: Christian Scheideler, Towards a rigorous base for the design of P2P systems.
3:00 - 3:30 pm	TEA BREAK
Session II – Scientific Applications and Programming Models Chair: Ivan Rodero, Rutgers University	
3:30 - 5:30 pm	Presentations: <ul style="list-style-type: none"> • <i>Optimization Patterns for the Orchestration of Parameter-Sweep Workflows</i>, Selim Kalayci, and S. Masoud Sadjadi, East Tennessee State University, US. • <i>A Framework for Managing Continuous Query Evaluations over Voluminous, Multidimensional Datasets</i>, Sangmi Pallickara, Mathew Malensek, and Cameron D. Toloee, Colorado State University, US. • <i>A Middleware for Managing Non-Functional Requirements in Cloud PaaS</i>, Alexander Pokahr, Lars Braubach, and Kai Jander, University of Hamburg, Germany.

	<ul style="list-style-type: none"> • Invited talk: Self-adaptive Resilient Service Composition, Mario Henrique Cruz Torres and Tom Holvoet.
7:00 -9:00 pm	Welcome Reception Science Museum London, Exhibition Road (Making the Modern World, Ground Floor)
Wednesday, September 10th, 2014	
8:30 - 5:00 pm	Registration and Check-in
9:30 - 10:30 am	Keynote: "Extremely Big" Distributed Systems – Prof. Maarten van Steen, VU University Amsterdam
10:30 - 11:00 am	COFFEE BREAK
Session III – RESOURCE MANAGEMENT Chair: Daniel A. Menasce, George Mason University	
11:00 am - 01:00 pm	Presentations: <ul style="list-style-type: none"> • <i>Autonomic Management of Cloud Resources and Services Framework</i>, Farah Fargo, Salim Hariri, Youssif Al-Nashif, and Cihan Tunc, University of Arizona, US. • <i>A Synchronization Mechanism for Cloud Accounting Systems</i>, Ewnetu Bayuh Lakew, Francisco Hernandez-Rodriguez, Lei Xu, and Erik Elmroth, Umeå University, Sweden. • <i>Modelling and Analysis of Migration Policies for Autonomic Management of Energy Consumption in Cloud via Petri-nets</i>, Marwah Alansari, and Behzad Bordbar, University of Birmingham, UK. • <i>Autonomic Resource Allocation for Cloud Data Centers: A Peer to Peer Approach</i>, Mina Sedaghat, Francisco Hernandez-Rodriguez, and Erik Elmroth, Umea University, Sweden.
01:00 - 3:30 pm	LUNCH
2:00 - 3:00 pm	Invited Speaker: Natasa Milic-Frayling, Personal Computing in the Contemporary Digital Ecosystem, LT G16, SAF Building.
3:00 - 3:30 pm	TEA BREAK
Session IV – RESOURCE AND APPLICATION MANAGEMENT	

Chair: Erik Elmroth, Umeå University	
3:30 - 6:00 pm	Presentations: <ul style="list-style-type: none"> • <i>The Straw that Broke the Camel's Back: Safe Cloud Overbooking with Application Brownout</i>, Luis Tomás, Cristian Klein, Johan Tordsson, and Francisco Hernandez-Rodriguez, Umeå universitet, Sweden. • <i>Autonomic Allocation of Communicating Virtual Machines in Hierarchical Cloud Data Centers</i>, Arwa Aldhalaan, and Daniel Menasce, George Mason University, US. • <i>Architectural Model and Planification Algorithm for the Self-Management of Elastic Cloud Applications</i>, Loic Letondeur, Orange, France. • <i>Autonomic Multi-Target Deployment of Science and Engineering HPC Applications</i>, Vaidy Sunderam, and Jaroslaw Slawinski, Emory University. US. • Invited Talk: When things get noisy: dealing with ubiquitously uncertain inputs, Lei Fang and Simon Dobson.
7:00 - 11:00 pm	Conference Dinner, Kia Oval, Kennington, London SE11 5SS (Terrace, 4th Floor; followed by England Suite, 2nd Floor)
Thursday, September 11th, 2014	
8:30 - 5:00 pm	Registration and Check-in
9:30 - 10:30 am	Keynote: "Autonomics, Cyberinfrastructure Federation, and Software-Defined Environments for Science" . Manish Parashar, Rutgers University, LT G16, SAF Building.
10:30 - 11:00 am	COFFEE BREAK
Session V – BIG DATA AND STORAGE	
Chair: Alan Sill, Texas Tech University	
11:00 am - 12:30 pm	Presentations: <ul style="list-style-type: none"> • <i>Mobile Publish/Subscribe System for Intelligent Transport Systems over a Cloud Environment</i>, Aleksander Antonic, Robayet Nasim, Ivana Podnararko, and Andreas J. Kessler, Karlstad University, Sweaden. • <i>Extending CometCloud to Process Dynamic Data Streams on Heterogeneous Infrastructures</i>, Rafael Tolosana-Calasanz, Omer Rana, Manish Parashar, and Javier Diaz-Montes, Universidad de Zaragoza, Spain. • <i>Media Cloud Architecture, Protocols, and Storage Efficiency Challenge</i>, Mohammad Azam, Kyung Hee University, South Korea.
01:00 - 2:00 pm	LUNCH

2:00 - 3:00 pm	Invited Speaker: Self of Societies, Prof. Andrzej Nowak, Florida Atlantic University, LT G16, SAF Building.
3:00 - 3:30 pm	TEA BREAK
Session VI- RECOMMENDATION AND SECURITY Chair: Javier Diaz Montes, Rutgers University	
3:30 - 5:00 pm	Presentations: <ul style="list-style-type: none"> • A Certification-based Trust Model for Autonomic Computing Systems, Ernesto Damiani, Univesita di Milano, Italy • QuARAM Recommender: Case-Based Reasoning for IaaS Service Selection, Khalid Elgazzar, Patrick Martin, and Sima Soltani, Queen's University, Canda. • An Efficient Heuristic-based Role Mapping Framework for Secure and Fair Collaboration in SaaS Cloud, Soumya K. Ghosh, Nirnay Ghosh, and Debangshu Chatterjee, Indian Institute of Technology, Kharagpur, India
5:00 - 6:00 pm	Panel: Programming Paradigms for Big Data Analytics on the Cloud, Chair: Salim Hariri, University of Arizona, US.
Friday, September 14th, 2014	
2nd International Workshop on AUTONOMIC MANAGEMENT OF GRID AND CLOUD COMPUTING (AMGCC' 2014) http://htcaas.kisti.re.kr/wiki/index.php/AMGCC14	
8:30 - 2:00 pm	CAC Registration and Check-in
9:30 - 9:40 am	Welcome Remarks by AMGCC workshop organizers
9:40 - 10:35 am	Invited Talk: Federation of Cloud Computing to Create a Uniform e-infrastructure for Research Dr. David Wallom, Oxford eResearch Centre, University of Oxford
10:35 - 11:30 am	Invited Talk: TBD, Prof. Dana Petcu, West University of Timisoara
11:30 - 12:00 am	COFFEE BREAK

12:00 - 01:00 pm	<p>Presentations:</p> <ul style="list-style-type: none"> • <i>VM Auto-Scaling for Workflows in Hybrid Cloud Computing</i>, Younsun Ahn, Yoohee Kim, Sookmyun, Women's University. • <i>Collaborative Multi-dimensional Dataset Processing with Distributed Cache Infrastructure in the Grid</i>, Youngmoon Eom, Jonghwan Moon, Jinwoong Kim, Beomseok Nam, Ulsan National Institute of Science and Technology.
01:00 - 2:00 pm	<p>LUNCH</p>
02:00 - 04:00 pm	<p>Presentations:</p> <ul style="list-style-type: none"> • <i>Autonomic Resource Allocation and Delay Optimization of Distributed Applications on Cloud</i>, Sarath Malipeddi, Pranav Nair, Saikrishna P S, Ramkrishna Pasumarthy, Indian Institute of Technology, Madras. • <i>Toward a Multi-cluster Analytical Engine for Transportation Data</i>, Mark Shtern, Rizwan Mian, Marin Litoiu, Saeed Zareian, Hossam Abdelgawad, Ali Tizghadam, York University & Cairo University. • <i>A High Performance I.O Stack for Fast Storage Devices</i>, Yongseok Son, Nae Young Song, Hyuck Han, Hyeonsang Eom, Heon Young Yeom, Seoul National University. • <i>High Performance Parallelization of Boyer-Moore Algorithm on Many-Core Accelerators</i>, Yosang Jeong, Myungho Lee, Dukyun Nam, Jik-Soo Kim, Soonwook Hwang, Myongji University & KISTI