

CLOUD FORWARD CONFERENCE 2015

OCTOBER 6th-8th, PISA, SCUOLA NORMALE SUPERIORE



Cloud Forward is an initiative of the HOLA Cloud project.
This project has received funding from the European Union

SALA AZZURRA

13:00 Registration

OPENING CEREMONY

Chaired by: Antonella Fresa, Promoter SRL

Dimosthenis Kyriazis (ICCS/NTUA), Mauro Fazio (Italian Ministry of Economic Development), Andrea Ferrara (Scuola Normale Superiore), Marco Filippeschi (Mayor of Pisa), Odysseas Pyrovolakis (European Commission), Eva Garcia Muntion (RTDI)

14.00 Welcome Addresses

Paola Inverardi, University of L'Aquila, National ICT Delegate

14:30 Automated Integration of Service-oriented Software Systems

DISTRIBUTED AND CLOUD COMPUTING

Chaired by: Maria Tsakali, European Commission

Elisabetta Di Nitto

15.00 **Cluster Introduction:** Software Engineering for Services and Applications

Pierfrancesco Bellini, Daniele Cenni and Paolo Nesi

15:05 **Smart Cloud Engine and Solution based on Knowledge Base**

Zhiming Zhao, Paul Martin, Junchao Wang, Ari Taal, Andrew Jones, Ian Taylor, Vlado Stankovski, Ignacio Garcia Vega, George Suciu, Alexandre Ulisses and Cees de Laat

15.20 **Developing and operating time critical applications in clouds: the state of the art and the SWITCH approach**

Athanasia Evangelinou, Michele Ciavotta, George Kousiouris and Danilo Ardagna

15:35 **A Joint Benchmark-Analytic Approach For Design-Time Assessment of Multi-Cloud Applications**

George Fylaktopoulos, George Goumas, Michael Skolarikis, Aris Sotiropoulos, Dimitrios Athanasiadis and Ilias Maglogiannis

15:50 **CIRANO: An integrated programming environment for multi-tier cloud based applications**

16:05 Tea Break

16:20 **Cluster Discussion:** Software Engineering for Services and Applications

Manuel Noya, Linknovate

18:45 The HOLA CLOUD Platform

19:00 Welcome Reception: Networking Cocktail



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Mazin Yousif, T-Systems

09:00 **Managing Sprawl of Cloud Services & Data Everywhere in an Enterprise**

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TOWARDS COMPLETE COMPUTING

Chaired by: Keith Jeffery, euroCRIS

Dana Petcu

09:30 **Cluster Introduction: New Approaches for Infrastructure Services**

Hamza Sahli, Faiza Belala and Chafia Bouanaka

09:35 **A BRS-Based Approach to Model and Verify Cloud Systems Elasticity**

Augusto Ciuffoletti

09:50 **Automated deployment of a microservice-based monitoring infrastructure**

10:05 **Cluster Discussion: New Approaches for Infrastructure Services**

AULA CONTINI

DISTRIBUTED AND CLOUD COMPUTING

Chaired by: Lutz Schubert, University of Ulm

Nikolay Nikolov, Alessandro Rossini and Kyriakos Kritikos

09:30 **Integration of DSLs and migration of models: a case study in the cloud computing domain**

Aliki Kopaneli, George Kousiouris, Gorka Echevarria Velez, Athanasia Evangelinou and Theodora Varvarigou

09:45 **A model driven approach for supporting the Cloud target selection process**

Sebastian Franken, Sabine Kolvenbach, Wolfgang Prinz, Iosif Alvertis and Sotiris Koussouris

10:00 **CloudTeams: Bridging the Gap between Developers and Customers during Software Development Processes**

10:15 **Cluster Discussion: Software Engineering for Services and Applications**

11:45 **Coffee Break**

SALA AZZURRA

TOWARDS COMPLETE COMPUTING

Chaired by: Eva Garcia Muntion, RTDI

Enol Fernández-Del-Castillo, Diego Scardaci and Alvaro Lopez Garcia

12:00 **The EGI Federated Cloud e-Infrastructure**

Selam Abrham Gebregiorgis and Jörn Altmann

12:15 **IT Service Platforms: Their Value Creation Model and the Impact of their Level of Openness on their Adoption**

12:30 **Cluster Discussion: New Approaches for Infrastructure Services**

AULA CONTINI

DISTRIBUTED AND CLOUD COMPUTING

Chaired by: Manuel Noya, Linknovate

Erkuden Rios Velasco

12:00 **Cluster Introduction: Data Protection, Security and Privacy in the Cloud**

Kyriakos Kritikos, Tom Kirkham, Bartosz Kryza and Philippe Massonet

12:05 **Security Enforcement for Multi-Cloud Platforms - The Case of PaaSage**

Emiliano Casalicchio and Monica Palmirani

12:20 **A Cloud Service Broker with Legal-Rule Compliance checking and Quality Assurance capabilities**

12:35 **Cluster Discussion: Data Protection, Security and Privacy in the Cloud**

13:15 **Lunch Break**



SALA AZZURRA

Yücel Karabulut, Oracle

14:00 Taking the Mystery out of Cloud Security: Fictions, Facts and Research Directions

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TOWARDS COMPLETE COMPUTING

Chaired by: Dimosthenis Kyriazis, ICCS/NTUA

Ana Maria Juan Ferrer

14:30 **Cluster Introduction: Inter-cloud Challenges**

Jörg Domaschka, Frank Griesinger, Daniel Baur and
Alessandro Rossini

14:35 **Beyond Mere Application Structure: Thoughts
on the Future of Cloud Orchestration Tools**

Beniamino Di Martino, Giuseppina Cretella and Antonio
Esposito

14:50 **Towards a Legislation-aware Cloud Computing
Framework**

15:05 **Cluster Discussion: Inter-cloud Challenges**

16:45 Tea Break

SALA AZZURRA

TOWARDS COMPLETE COMPUTING

Chaired by: Dimosthenis Kyriazis, ICCS/NTUA

Richard Sanders, Gunnar Brataas, Mariano Cecowski, Kjetil
Haslum, Simon Ivanšek, Jure Polutnik and Brynjar Viken

17:00 **CloudStore, towards scalability benchmarking
in Cloud computing**

Christian Nawroth, Matthäus Schmedding, Holger Brocks,
Michael Kaufmann, Michael Fuchs and Matthias Hemmje

17:15 **Towards Cloud-Based Knowledge Capturing
Based on Natural Language Processing**

Ana Maria Juan Ferrer

17:30 **SLALOM: Cloud SLAs**

17:45 **Cluster Discussion: Inter-cloud Challenges**

20:30 Networking Dinner (upon reservation)

AULA CONTINI

DISTRIBUTED AND CLOUD COMPUTING

Chaired by: Geir Horn, University of Oslo

Bojan Suzic, Andreas Reiter, Florian Reimair, Daniele Venturi
and Baldur Kubo

14:30 **Secure Data Sharing and Processing in
Heterogeneous Clouds**

Albert Trias Mansilla, Sam Sethserey and Josep Lluís De La
Rosa

14:45 **Applying short-term memory to social search
agents**

15:00 **Cluster Discussion: Data Protection, Security
and Privacy in the Cloud**

AULA CONTINI

DISTRIBUTED AND CLOUD COMPUTING

Chaired by: Geir Horn, University of Oslo

17:00 **Cluster Discussion: Data Protection, Security
and Privacy in the Cloud**

17:45 **Demos: CIRANO, CloudStore, Microservice-
based monitoring**

SALA AZZURRA

Domenico Laforenza, CNR

09:30 Are we condemned to be dependent by a cloud? Discussing of future among doubts, fears and (few) certainties

FROM DISTRIBUTED TO COMPLETE COMPUTING

Chaired by: Odysseas Pyrovolakis, European Commission

Keith Jeffery, George Kousiouris, Dimosthenis Kyriazis, Jörn Altmann, Augusto Ciuffoletti, Ilias Maglogiannis, Paolo Nesi, Bojan Suzic and Zhiming Zhao

10:00 Challenges emerging from future cloud application scenarios

Elisabetta Di Nitto

10:15 Software Engineering for Services and Applications Challenges

Ana Maria Juan Ferrer

10:30 Inter-cloud Challenges

Dana Petcu

10:50 New Approaches for Infrastructure Services

Erkuden Rios Velasco

11:00 Data Protection, Security and Privacy in the Cloud

OPEN DISCUSSION

Moderated by: Maria Tsakali (European Commission) and Keith Jeffery (euroCRIS)

Panelists: Mazin Yousif, Yücel Karabulut, Domenico Laforenza

11:15 Challenges, Future Scenarios, New Technologies beyond Clouds

12:00 Coffee Break

AWARD CEREMONY

Chaired by: Eva Garcia Muntion, RTDI

12:30 Best Paper Award and Best Joint Paper Award

CLOSING CEREMONY

Chaired by: Keith Jeffery, euroCRIS

Odysseas Pyrovolakis (European Commission), Eva Garcia Muntion (RTDI)

12:45 Closing Remarks

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