

The 5th International Conference on Service Oriented Computing

ICSOC 2007

PROGRAM GUIDE

Conference, Workshops and Tutorials



TECHNISCHE
UNIVERSITÄT
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VIENNA
UNIVERSITY OF
TECHNOLOGY

ser^{tech.}
Scientific Academy for Service Technology

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Ingolf Krüger, University of California, San Diego, USA

Service Assembly

Tiziana Margaria, University of Potsdam, Germany

Vincenzo D'Andrea, University of Trento, Italy

Service Management

Fabio Casati, University of Trento, Italy

Heiko Ludwig, IBM Research, USA

SOA Runtime

Karsten Schwan, Georgia Tech, USA

Frank Leymann, University of Stuttgart, Germany

Quality of Service

Doug Schmidt, Vanderbilt University, USA

Elisa Bertino, Purdue University, USA

Grid Services

Jörn Altmann, International University, Germany, and Seoul National University, Korea

Business and Economical Aspects of Services

Christos Nikolaou, University of Crete, Greece

Michael Huhns, University of South Carolina, USA

Program Committee

Research Track

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Luciano Baresi, Italy

Elisa Bertino, USA

Bishwaranjan Bhattacharjee, USA

Walter Binder, Switzerland

Marina Bitsaki, Greece

M. Brian Blake, USA

Athman Bouguettaya, USA

Tevfik Bultan, USA

Nathan Caswell, USA

Kuo-Ming Chao, UK

Shing-Chi Cheung, China

Francisco Curbera, USA

Flavio De Paoli, Italy

E. Michael Maximilien, USA

Massimo Macella, Italy

Brahim Medjahed, USA

David O'Hallaron, USA

Anna Perini, Italy

Marco Pistore, Italy

Axel Polleres, Spain

Wolfgang Reisig, Germany

Thomas Risse, Germany

Norbert Ritter, Germany

Colette Rolland, France

Akhil Sahai, USA

Jakka Sairamesh, USA

Volker Sander, Germany

Tommaso Di Noia, Italy
Wolfgang Emmerich, UK
Gianluigi Ferrari, Italy
George Feuerlicht, Australia
Dennis Gannon, USA
Dimitrios Georgakopoulos, USA
Claude Godart, France
Andy Gordon, UK
Paul Grefen, The Netherlands
John Grundy, New Zealand
Mohand-Said Hacid, France
Bernhard Holtkamp, Germany
Bettina Kemme, Canada
Alfons Kemper Germany
Rania Khalaf, USA
Roger Kilian-Kehr, Germany
Patricia Lago, The Netherlands
Neil Maiden, China

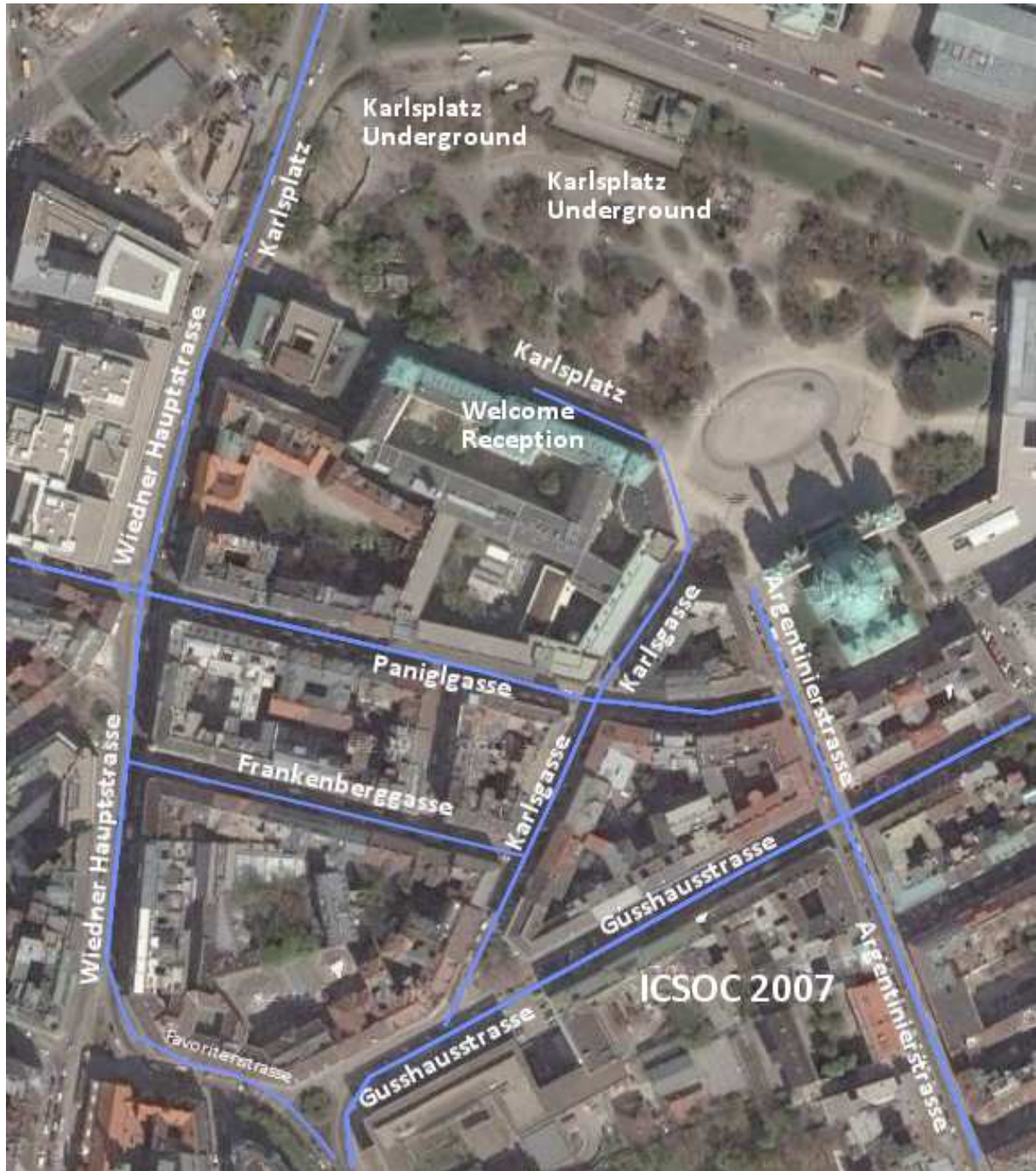
Jun Shen, Australia
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Farouk Toumani, France
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Wenbing Zhao, USA
Wolfgang Ziegler, Germany
Christian Zirpins, Germany

Industrial Track

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Gunter Sauter, USA
Karl Schulmeisters, USA
Harini Srinivasan, USA
Lynne Thompson, USA
Mahesh Viswanathan, USA
Sanjeeva Weerawarana, Sri Lanka
Hemesh Yadav, USA

Local Information



Welcome Reception

On Monday, September 17, we welcome the participants of this year's ICSOC at the Festsaal of the TU Vienna. It is located at the main building:

Karlsplatz 13, Staircase 1, 1st Floor

ICSOC Conference

The conference tracks are held in the "Altes Elektrotechnisches Institutsgebäude":

Gußhausstraße 25, Staircase 8, Second Floor

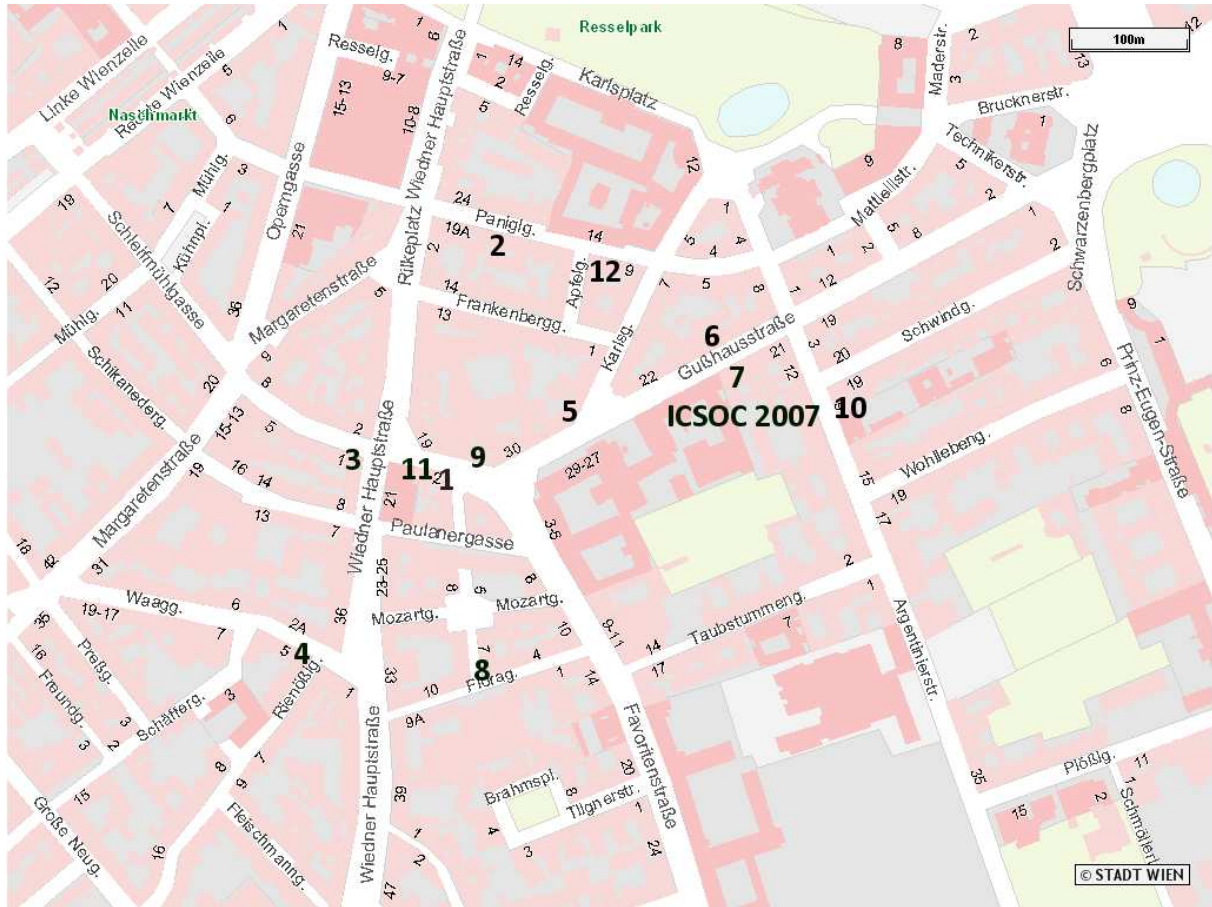
Co-located Workshops

The co-located workshops take place in the “Altes Elektrotechnisches Institutsgebäude”:
Gußhausstraße 25, Staircase 8, Second Floor

Co-located Workshop SOC@Inside

This co-located workshop takes place in the “Altes Elektrotechnisches Institutsgebäude”:
Gußhausstraße 25, Staircase 8, First Floor, Seminar Room 354

Eating and Drinking near the Conference



1. **Anker Brot** - A traditional Austrian snack bar
2. **Wiener Wirtschaft** – A traditional Viennese restaurant
3. **Das Triest - Restaurant Collio** – An upscale italian restaurant
4. **Wiedner Bräu**– Provides traditional Viennese cooking
5. **Wiener Wia-z-haus** – Traditional Viennese cooking. Experience true Austrian “Schanigarten” ambiente
6. **Arthur & Arthur** – Provides traditional Viennese cooking
7. **Gußhaus** – Providing traditional Viennese cooking
8. **Artner** – Provides traditional Viennese cooking
9. **Asia Pavillion** – A modern asian restaurant providing numerous specialities
10. **Ostmeer** – A traditional Chinese restaurant
11. **Yamo Yamo** – A modern asian restaurant
12. **Calatrava** – An Mexican restaurant providing menus at lunch time

Keynote

Ambuj Goyal

**General Manager, Information Management Software
IBM Software Group**



Title

The Challenge of Delivering Trusted Information to Service Oriented Computing

Abstract

Service Oriented Computing has exploded onto the scene as one of the top priorities of the IT industry today. Unprecedented value is being enjoyed - at both a business and technical levels - by early implementers of Service Oriented Computing. However, the first ripples of success define the next wave of challenges. As companies have exposed critical processes as a service, they also have realized the criticality of delivering trusted information as a service.

While much progress has been achieved to support this goal, challenges remain; semantic reconciliation, metadata management, information security and governance, to name but a few. This presentation will explore information management issues and approaches relating to Service Oriented Computing, position IBM's efforts, and highlight areas the industry will need to address for continuing progress.

About the speaker

Dr. Goyal was named General Manager, Information Management Software in August 2005. He served in his previous position as the General Manager of Workplace, Portal, and Collaboration Software (WPLC) from January 2003 to August 2005. In that position, Dr.

Goyal architected the transformation of Lotus software by expanding its focus beyond the traditional “Collaboration” marketplace to encompass the “People Productivity” market. He was responsible for setting the business strategy and direction for the Websphere Portal product set, the Lotus Software product set, and the IBM Workplace product set.

Prior to serving as General Manager of Workplace, Portal, and Collaboration Software, Dr. Goyal served as the General Manager, Solutions and Strategy, IBM Software Group, from February 2001, to January 2003. In that position, he was responsible for setting business strategy for IBM’s Software Group, the WebSphere Business Integration product set, and delivering industry-specific middleware solutions.

Prior to serving as General Manager of Solutions and Strategy, Dr. Goyal served as Chief Technology Officer, Application & Integration Middleware Division, which includes the WebSphere and MQ product families.

Dr. Goyal joined IBM Corporation in 1982 as a research staff member at the T.J. Watson Research Center. He was named Vice President, Services and Software, and Director, Computer Sciences in 1996. In this dual role, he was responsible for setting IBM's long-term research direction in computer sciences, as well as ensuring that the best emerging technologies contribute to IBM's services offerings and software products. He had approximately 1500 researchers reporting to him in seven labs worldwide.

Dr. Goyal's main research interests are in high performance systems, databases and distributed systems. His early work in scalable databases led to IBM’s Universal Database (DB2) family. He was also responsible for setting the early direction in web application servers which led to the WebSphere product family. He also led the research efforts to create the RS/6000 SP supercomputer and the Deep Blue World Chess Champion computer.

Dr. Goyal has authored over 25 articles in various fields and has received five outstanding innovation awards from IBM for his work. He was elected an IEEE Fellow for his contributions to the theory and practice of highly dependable systems; elected an ACM Fellow in recognition of outstanding technical and professional achievements in the field of information technology.

Dr. Goyal received his Ph.D. degree in Electrical Engineering from The University of Texas at Austin in 1982, and his Bachelor's degree from the Indian Institute of Technology at Kanpur in 1978.

Workshop, PhD Symposium & Tutorial Program Overview

Monday September 17, 2006

8:00	<i>Conference and Workshop Registration opens</i>					
8:30 – 12:30	ICSOC Workshops					PhD Symposium
	WESOA 2007	SeMSoC 2007	NFPSLA-SOC 2007	Mashups 2007	TSOA 2007	
10:30 – 11:00	<i>Coffee Break</i>					
	WESOA 2007	SeMSoC 2007	NFPSLA-SOC 2007	Mashups 2007	TSOA 2007	PhD Symposium
	Room EI 3	Room EI 2	Room EI 4	Room EI 3A	Room EI 5	Room Seminarraum Argentinierstraße 8
12:30 – 1:30	<i>Lunch (on your own)</i>					
1:30 – 3:30						PhD Symposium
						Room Seminarraum Argentinierstraße 8
3:30 – 4:00	<i>Coffee Break</i>					
4:00 – 5:30	ICSOC Tutorials					
	BPEL	Service Bus		QoS		
	Room EI 3	Room EI 2		Room EI 5		
6:00 – 7:30	<i>Welcome Reception (Festsaal, TU Vienna)</i>					

Tuesday September 18, 2006

8:00	<i>Conference and Workshop Registration opens</i>	
8:30 – 5:30	Conference Program	
5:45 – 7:30	ICSOC Tutorials	
	Web APIs on Rails	Monitoring and Testing
	Room EI 5	Room EI 2

Workshop WESOA 2007

3rd Int. Workshop on Engineering Service-Oriented Application: Analysis, Design and Composition (Room EI 3)

- 8:00 – 8:30 *Conference Registration*
8:30 – 8:40 *Workshop Opening*
- 8:40 – 9:30 **Keynote: Marco Aiello (University of Groningen)**
- 9:30 – 10:30 **Session 1: SOA Management**
Chair: Guadalupe Ortiz
Towards Self-Management in Service-oriented Computing with Modes
Howard Foster, Sebastian Uchitel, Jeff Kramer, and Jeff Magee
StPowla: SOA, Policies and Workflows
Stephen Gorton, Carlo Montangero, Stephan Reiff-Marganiec, Laura Semini
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 12:30 **Session 2: Service Composition**
Chair: Christian Zirpins
A Fault Taxonomy for Web Service Composition
K.S. May Chan, Judith Bishop, Johan Steyn, Luciano Baresi and Sam Guinea
Pluggable Framework for Enabling the Execution of Extended BPEL Behavior
Rania Khalaf, Dimka Karastoyanova, Frank Leymann
Variability-Driven Selection of Services for Service Compositions
Kai Petersen, Johannes Maria Zaha, Andreas Metzger
- 12:30 – 1:30 *Lunch (on your own)*
- 1:30 – 2:30 **Session 3: Choreography**
Chair: Winfried Lamersdorf
Web Service Choreography Configurations for BPMN
Kerstin Pfitzner, Gero Decker, Oliver Kopp, Frank Leymann
Goal preservation by choreography-driven matchmaking
Matteo Baldoni, Cristina Baroglio, Alberto Martelli, Viviana Patti, Claudio Schifanella
- 2:30 – 3:30 **Session 4: Tools Support**
Chair: George Feuerlicht
From OWL-S descriptions to Petri nets
Antonio Brogi, Sara Corfini, Stefano Iardella
Designing Web-based Mobile Services with REST
Claudio Riva, Markku Laitkorpi
- 3:30 – 3:40 *Closure*
3:40 – 4:00 *Coffee Break*
- 4:00 – 5:30 ICSOC Tutorials
6:00 – 7:30 *Welcome Reception with Drinks and Fingerfood (Festsaal, TU Vienna)*

Workshop Mashups'07

International Workshop on Web APIs and Services Mashups (Room EI 3A)

- 8:00 *ICSOC conference registration opens*
- 8:30 – 8:40 *Opening – Michael Maximilien and Stefan Tai*
- 8:40 – 9:30 **Keynote: Enterprise Mashup Architecture: building on the foundations of SOA - Duane Nickull, Adobe Systems, Inc.**
Introduction: Michael Maximilien
- 09:30 – 10:30 **Invited Papers Session**
Chair: Stefan Tai
Itinerary Planner: A Mashup Case Study
Shyam Govardhan and George Feuerlicht
Let it Flow: Building Mashups with Data Processing Pipelines
Björn Bjoernstad and Cesare Pautasso
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 11:30 **Invited Papers Session**
Chair: Stefan Tai
Is there a Market for Web Services? An Analysis of Web Service Directories
Christine Legner
- 11:30 – 12:30 **Mashups'07 Panel**
Moderator: Dave Nielsen
Panelists:
Gregor Hohpe (Google, Inc.), Duane Nickull (Adobe), Michael Maximilien (IBM Almaden), TBD
- 12:30 – 12:45 *Walk to restaurant Gusshaus*
- 12:45 – 2:00 *Lunch (sponsored, location TBD)*

Workshop SeMSoC

2nd International SeMSoC Workshop – Business Oriented Aspects concerning Semantics and Methodologies in Service-oriented Computing (Room EI 2)

8:00	<i>Conference Registration opens</i>
8:30 – 8:40	<i>Opening</i>
8:40 – 9:30	Keynote (Thomas Erl)
9:30 – 10:00	Towards a Methodology for Semantic Business Process Modeling and Configuration <i>Ingo Weber, Jörg Hoffmann, Jan Mendling, Jörg Nitzsche</i>
10:00 – 10:30	Decoupling of Heterogeneous Semantic Service Annotations and their Semantic Models – Towards an Integrated Approach in a Multi-Service-Provider-Scenario <i>Jannis Rake, Marten Schönherr</i>
10:30 – 11:00	<i>Coffee break</i>
11:00 – 11:30	An Execution Engine for Semantic Business Processes <i>Tammo van Lessen, Jörg Nitzsche, Marin Dimitrov, Mihail Konstantinov, Dimka Karastoyanova, Luchesar</i>
11:30 – 12:00	Goal-Equivalent Secure Business Process Re-engineering <i>Hugo Andres Lopez, Fabio Massacci, Nicola Zannone</i>
12:00 – 12:30	Service Composition Strategies for Loosely Coupled Information Chains <i>Christoph Schroth</i>
12:30 – 2:00	Lunch break
2:00 – 2:30	Deriving SOA Evaluation Metrics in an Enterprise Architecture Context <i>Stephan Aier, Maximilian Ahrens, Matthias Stutz, Udo Bub</i>
2:30 – 3:00	Measuring Business Process Similarity based on Graph Transformation Cost <i>Yunjiao Xue, Hamada H. Ghenniwa, Weiming Shen</i>
3:00 – 3:30	Querying in Business Process Modeling <i>Ivan Markovic, Alessandro Costa Pereira, David de Francisco, Henar Munoz</i>
3:30 – 3:40	<i>Closure</i>
3:40 – 4:00	<i>Coffee Break</i>
4:00 – 5:30	ICSOC Tutorials
6:00 – 7:30	<i>Welcome Reception with Drinks and Fingerfood (Festsaal, TU Vienna)</i>

Workshop NFPSLA-SOC 2007

Non Functional Properties and Service Level Agreements in Service Oriented Computing Workshop (Room EI 4)

8:00	<i>Conference Registration opens</i>
8:30 – 8:40	<i>Opening</i>
8:40 – 9:40	Session 1: Keynote Speaker
	Jorge Cardoso
08:40 - 09:40	Where do the Semantic Web and SOA meet?
9:40 – 10:30	Session 2: NFP
	Chair: Flavio De Paoli
09:40 - 10:00	Introducing preferences over NFPs into service selection in SOA <i>Christian Schröpfer, Solomon Eyal Shimony and Maxim Binshtok</i>
10:00 - 10:20	Non-Functional Property Driven Service Governance: Performance Implications <i>Yan Liu, Liming Zhu, Len Bass, Ian Gorton and Mark Staples</i>
10:20 - 10:30	Session discussions
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 12:30	Session 3: Semantic and Ontologies for NFP
	Chair: Ioan Toma
11:00 - 11:20	On User Preferences and Utility Functions in Selection: A Semantic Approach <i>José María García, David Ruiz and Antonio Ruiz</i>
11:20 - 11:40	Non-functional Parameters as First Class Citizens in Service Description and Matchmaking - An Integrated Approach <i>Mohamed Hamdy, Birgitta König-Ries and Ulrich Küster</i>
11:40 - 12:00	onQoS-QL: a query language for QoS-based service selection and Ranking <i>Giuseppe Damiano, Ester Giallonardo and Eugenio Zimeo</i>
12:00 - 12:20	A Semantic QoS-based Web Service Discovery Engine for Over-Constrained QoS Demands <i>Kyriakos Kritikos and Dimitris Plexousakis</i>
12:20 - 12:30	Session discussions
12:30 – 1:30	<i>Lunch (on your own)</i>
13: 30 – 14:30	Session 2: NFP2
	Chair: Andrea Maurino
13:30 - 13:50	Service Selection based on Non-Functional Properties <i>Stephan Reiff-Marganiec, Hong Qing Yu and Marcel Tilly</i>
13:50 - 14:10	Managing Non-functional Properties of Inter-enterprise Business Service Delivery <i>Toni Ruokolainen and Lea Kutvonen</i>
14:10 - 14:20	Session discussions
14:20 – 15:30	Session 4: SLA
	Chair: Marcel Tilly
14:20 - 14:40	A framework for the management of dynamic SLAs in composite service scenario <i>Orazio Tomarchio, Giuseppe Di Modica and Lorenzo Vita</i>
14:40 - 15:00	Temporal-Awareness in SLAs. Why should we be concerned? <i>Carlos Müller, Antonio Ruiz and Pablo Fernández</i>
15:00 - 15:20	Dynamic Service Provisioning Using GRIA SLAs

Mike Boniface, Stephen Phillips, Alfonso Sanchez-Macian Perez and Mike Surridge

15:20 - 15:30 Session discussions

15:30 - 15:40 *Closure*

15:40 - 16:00 *Coffee Break*

16:00 - 17:30 ICSOC Tutorials

18:00 - 19:30 *Welcome Reception with Drinks and Fingerfood (Festsaal, TU Vienna)*

Workshop TSOA 2007

1st Int. Workshop on Telecom Service Oriented Architectures (Room EI 5)

8:00	<i>Conference Registration opens</i>
8:30 – 8:40	<i>Opening</i>
8:40 – 9:30	Keynote: Yves Lafon (W3C)
9:30 – 10:30	Session 1: Semantics Chair: Paolo Falcarin Mobile Ontology: Towards a Standardized Semantic Model for the Mobile Domain <i>Claudia Villalonga, Martin Strohbach, Niels Snoeck, Michael Sutterer, Mariano Belaunde, Ernő Kovacs, Anna Zhdanova, Laurent Walter Goix, Olaf Droegehorn</i> Validation Aspects of Automatic Service Composition <i>Mazen Malek Shiaa</i>
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 12:30	Session 2: Service Design and Composition Chair: Mariano Belaunde Dealing with active and stateful services in the Service-oriented Architecture <i>Haldor Samset, Rolv Braek</i> Design and Analysis of the Composed Telecom Services <i>Piergiorgio Bertoli, Laura Ferrari, Raman Kazhamiakin, Corrado Moiso, Marco Pistore, Ermes Thuegaz</i> A Business-Level Service Model Supporting End User Customization <i>Jianwu WANG, Jian YU</i>
12:30 – 1:30	<i>Lunch (on your own)</i>
1:30 – 3:30	Session 3: Telecom Service Platforms Chair: Laurent Walter Goix Management of SOA based IMS services <i>Florian Schreiner, Peter Weik, Thomas Magedanz</i> Web Service Based Asynchronous Service Execution Environment <i>Davide Cipolla, Matteo Demartini, Fabrizio Cosso, Marc Drewniok, Francesco Moggia, Paola Renditore, Jurgen Siemel</i> Towards context-aware Telecom end user services through SOA <i>Philipp Mohr, Giuseppe Raffa, Marina Pettinari, Tullio Salmon Cinotti, Cristina Fra, Claudio Venezia, Paolo Protto</i> Semantically enabled framework for user centric profile <i>João Moura, Carlos Damàsio, Paulo Chainho</i>
3:30 – 3:40	<i>Closure</i>
3:40 – 4:00	<i>Coffee Break</i>
4:00 – 5:30	ICSOC Tutorials
6:00 – 7:30	<i>Welcome Reception with Drinks and Fingerfood (Festsaal, TU Vienna)</i>

Workshop SOC@Inside

SOC@Inside'07 (Seminar Room 354) Service Oriented Computing: a Look at the Inside

8:00	<i>Conference Registration opens</i>
9:00 – 9:15	<i>Welcome from the chairs</i>
9:15 – 10:30	Keynote: Paola Inverardi (Università degli Studi dell'Aquila, Italy) <i>Adaptation and Dependability in Service Oriented Computing</i>
10:30 – 11:00	<i>Coffee Break</i>
11:00 – 11.40	Notes from the EU Commission Service Unit <i>Anne-Marie Sassen</i>
11:40-12:30	Session I - Service Engineering Chair: TBA On the adptation of context-aware services <i>Marco Autili, Vittorio Cortellessa, Paolo Di Benedetto, Paola Inverardi</i> Designing and Deploying Service-Centric Systems: The SeCSE Way <i>The SeCSE Team</i>
12:30 – 2:00	<i>Lunch</i>
2:00 – 3:30	Session II - Service Level Agreement Chair: TBA Coping with the Complexity of Service-oriented Computing using Controlled Self-Organization <i>Lei Liu, Stefan Thanheiser, Hartmut Schmeck</i> The evolving use of Service Level Agreements and the influence of Trust within the support and development of Grids to enable a next generation of business models <i>Francesco D'Andria, Josep Martrat, Tom Kirkham, Syed Naqvi, Julian Gallop, Alvaro Arenas</i> Negotiating SLAs with Dynamic Pricing Policies <i>Peer Hasselmeyer, Bastian Koller, Ioannis Kotsiopoulos, Dean Kuo, Michael Parkin</i>
3:00 – 4:00	Industrial Keynote: Stefano De Panfilis (Engineering Ingegneria Informatica S.p.A.) <i>Future needs of industry in service oriented computing</i>
4:00 – 4:30	<i>Coffee Break</i>
4:30 – 5:30	Session III - Service Discovery Chair: TBA Discovering Services to Support Creative Thinking during Early Requirements Processes <i>Konstantinos Zachos, Neil Maiden</i> Behavior-aware, Unified Service Discovery

Michael Pantazoglou, Aphrodite Tsalgatidou, George Spanoudakis
Service Discovery Suite for User-Centric Service Creation
Carlos Baladròn, Javier Aguiar, Belén Carro, Jürgen Sienel, Rubén Trapero,
Juan Carlos Yelmo, Jose María del Álamo, Jian Yu, Paolo Falcarin

5:30 – 6:00

Wrap up

4:00 – 5:30

ICSOC Tutorials

6:00 – 7:30

Welcome Reception with Drinks and Fingerfood (Festsaal, TU Vienna)

PhD Symposium

ICSOC Ph.D. Symposium (Room: Seminarraum Argentinierstraße 8)

8:00	<i>Conference Registration opens</i>
8:30 – 8:40	<i>Organizers' Welcome, A. Hanemann</i>
	Mentors: W.-J. van den Heuvel, P. Narasimhan, P. Traverso, P. Tuma
8:40 – 9:50	Session 1: Keynote Speech Service-oriented Computing from Design-time to Run-time: Some Research Challenges <i>P. Traverso</i> Lightning Talks
9:50 – 10:20	<i>Coffee Break</i>
10:20 – 12:20	Session 2: Service Discovery Discovering Web Services to Specify More Complete System Requirements <i>K. Zachos (City University, United Kingdom)</i> Ontology and Behaviour aware Service Discovery <i>S. Corfini (University of Pisa, Italy)</i>
12:20 – 1:30	<i>Lunch (on your own)</i>
1:30 – 3:30	Session 3: Services and Business Type-based Validation and Management of Business Service Interoperability <i>T. Ruokolainen (University of Helsinki, Finland)</i> Business Driven Strategy for Service-Oriented Architecture: A Systems Dynamics Approach <i>J. Choi (University of Wisconsin-Milwaukee, USA)</i> A Feature-based Approach to Web Services E-contract Establishment <i>Marcelo Fantinato (UNICAMP, Brazil)</i>
3:30 – 4:00	<i>Coffee Break</i>
4:00 – 5:30	Session 4: Service Management IT Service Management Processes for Concatenated Services in Multi-Domain Environments <i>Matthias K. Hamm (Leibniz Supercomputing Center, Germany)</i> Quality-aware Self-Management for Service Processes in Service-Oriented Architectures <i>Steffen Bleul (University of Kassel, Germany)</i>
6:00 – 7:30	<i>Welcome Reception with Drinks and Fingerfood (Festsaal, TU Vienna)</i>

Keynote Abstract:

The fundamental idea underlying service-oriented computing is that solutions are developed by composition and configuration of software services, i.e., “utilities” that can be used but that are not owned by users, and that are therefore not fully under their control. This shift poses a number of challenges that span the whole life-cycle of service-oriented applications, from design-time to run-time. In the talk, I will discuss some research challenges in supporting the design of service-oriented applications and service-level agreements, as well as the run-time monitoring, management and adaptation of services.

Demo Program

Tool Demos (Main Hall in front of Rooms EI) Tuesday, Sept. 18 – Thursday, Sept. 20, 2007

- 8:00 *Conference Registration opens*
- 9:00 – 5:30 UMM Add-In: A UML Extension for UN/CEFACT's Modeling Methodology
Birgit Hofreiter, Christian Huemer, Philipp Liegl, Rainer Schuster, Marco Zapletal
- CP4TWS: A Prototype Demonstrating Context and Policies for Transactional Web Services
Sattanathan Subramanian, Zakaria Maamar, Nanjangud Narendra, Djamel Benslimane, Philippe Thiran
- WSQoSX – A QoS architecture for Web Service workflows
Rainer Berbner, Michael Spahn, Nicolas Repp, Oliver Heckmann, Ralf Steinmetz
- ReoService: coordination modeling tool
Christian Koehler, Alexander Lazovik
- Information as a Service as part of a Business Process / SOA
Paul F. Wilms and Ingo Hotz

Conference Program Overview

	Sept 17 Monday	Sept 18 Tuesday			Sept 19 Wednesday			Sept 20 Thursday		
8:00	<i>Conference and Workshop Registration opens</i>									
8:00 – 8:30		Opening Session (EI 3)								
8:30 – 9:30		Keynote Address (EI 3) Ambuj Goyal			Overview and Panel Session II: SOA Governance (EI 3)			Overview and Panel Session III: SOA Registries and SOA Runtime (EI 3)		
9:30 – 10:30	Workshops & PhD Symposium (EI 2, 3, 3a, 4, 5, Seminarraum Argentinierstraße 8)	S 1 (EI 3): Service Deployment	S 2 (EI 2): Business Proc. Design	S 3 (EI 5): Service Discovery						
10:30 – 11:00		<i>Coffee Break</i>								
11:00 – 12:30		S 4 (EI 3): Workflow	S 5 (EI 2): QoS Support	S 6 (EI 5): Testing & Validation	S 9 (EI 3): Service Properties	S 10 (EI 2): Service Modeling	S 11 (EI 5): SOA Composition	S 15 (EI 3): SOA Runtime	S 16 (EI 5): (Short Papers): Svc Modeling	
12:30 – 1:30	<i>Lunch (on your own)</i>									
1:30 – 3:30	Workshops & PhD Symposium	Overview and Panel Session I: Information as a Service (EI 3)			S 12 (EI 3): SOA Governance	S 13 (EI 2): SOA Experience	S 14 (EI 5) (Short Papers): SOA Adoption	S 17 (EI 3): SOA Runtime	S 18 (EI 5): (Short Papers): QoS and Composite Svc Support	
3:30 – 4:00	<i>Coffee Break</i>				3:00 – 7:30 pm Excursion to Schloss Schönbrunn			Closing Session (EI 3)		
4:00 – 5:30	Tutorials	S 7 (EI 2): Information as a Service	S 8 (EI 5): Service Assembly							
6:00 – 7:30	<i>Welcome Reception</i>	Tutorial (EI 5): Web APIs on Rails	Tutorial8 (EI 2): Monitoring and Testing							
7:30		Banquet • City Hall								

Conference Program

Tuesday, September 18, 2007

- 8:00 *Conference Registration opens*
- 8:00 – 8:30 *Opening Session (Room: EI 3)*
Opening and Welcome
Asit Dan & Schahram Dustdar, General Chairs
Program Overview
Bernd Krämer, Kwei-Jay Lin & Priya Narasimhan, Program Chairs
Industrial Program
Bob Johnson, Industrial-Acad. Coord. Chair, & Bobbi Young, Industrial Chair
Conference Series
Mike Papazoglou, ICSOC Steering Committee Chair
Welcome
Gerald Steinhardt, Dean of the Faculty of Computer Science, Vienna University of Technology
Organizational Matters
Uwe Zdun, Local Organization Chair
- 8:30 – 9:30 **Keynote (Room: EI 3)**
Chair: Asit Dan
The Challenge of Delivering Trusted Information to Service Oriented
Ambuj Goyal, IBM
- 9:30 – 10:30 **Parallel Session 1: Service Deployment (Room: EI 3)**
Chair: Frank Leymann
Pattern Based SOA Deployment
W. Arnold, T. Eilam, M. Kalantar, A.V. Konstantinou, and AA. Totok
A Domain-Specific Language for Web APIs and Services Mashups
E.M. Maximilien, H. Wilkinson, N. Desai, and S. Tai
- 9:30 – 10:30 **Parallel Session 2: Business Process Design (Room: EI 2)**
Chair: Boualem Benatallah
BPEL4Job: A Fault-Handling Design for Job Flow Management
W. Tan, L. Fong, and N. Bobroff
Faster and More Focused Control-Flow Analysis for Business Process Models through SESE Decomposition
J. Vanhatalo, H. Völzer, and F. Leymann
- 9:30 – 10:30 **Parallel Session 3: Service Discovery (Room: EI 5)**
Chair: Bernd Krämer
Discovering Service Compositions That Feature a Desired Behaviour
F. Benigni, A. Brogi, and S. Corfini
An Hybrid, QoS-Aware Discovery of Semantic Web Services Using Constraint Programming
J.M. García, D. Ruiz, A. Ruiz-Cortés, O. Martín-Díaz, and M. Resinas
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 12:30 **Parallel Session 4: Workflow (Room: EI 3)**
Chair: Fabio Cassati
Architectural Decisions and Patterns for Transactional Workflows in SOA
O. Zimmermann, J. Grundler, S. Tai, and F. Leymann
Bite: Workflow Composition for the Web
F. Curbera, M. Duftler, R. Khalaf, and D. Lovell
Stochastic Modeling of Composite Web Services for Closed-Form Analysis of their Performance and Reliability Bottlenecks
N. Sato and K.S. Trivedi

- 11:00 – 12:30 **Parallel Session 5: Quality of Service Support (Room: EI 2)**
Chair: Paco Curbera
 SLA-Based Advance Reservations with Flexible and Adaptive Time QoS Parameters
M.A.S. Netto, K. Bubendorfer, and R. Buyya
 Monitoring the QoS for Web Services
L. Zeng, H. Lei, and H. Changl
 Q-Peer: A Decentralized QoS Registry Architecture for Web Services
F. Li, F. Yang, K. Shuang, and S. Su
- 11:00 – 12:30 **Parallel Session 6: Testing and Validation (Room: EI 5)**
Chair: Elisabetta di Nitto
 Business Process Regression Testing
H. Liu, Z. Li, J. Zhu, and H. Tan
 Auditing Business Process Compliance
A. Ghose and G. Koliadis
 Specification and Verification of Artifact Behaviors in Business Process Models
C.E. Gerede and J. Su
- 12:30 – 1:30 *Lunch (on your own)*
- 1:30 – 3:30 **Overview and Panel Session I: Information as a Service (Room: EI 3)**
Chair: Bobbi Young
 The Evolution of Information as a Service
Daniel Wolfson, IBM
Panel moderator
D. Wolfson, IBM
Panel members
David Bressler, Progress; Chris Harding, OpenGroup; Mike Papazoglou, Tilburg University
- 3:30 – 4:00 *Coffee Break*
- 4:00 – 5:30 **Parallel Session 7: Information as a Service (Room: EI 2)**
Chair: Mike Papazoglou
 Research and Implementation of Knowledge-Enhanced Information Services (IP)
B. Yang, H. Wang, L. Liu, Q. Ma, Y. Chen, and H. Lei
 A Model and Rule Driven Approach to Service Integration with Eclipse Modeling Framework (IP)
I. Cheng, N. Boyette, J. Bethea, and V. Krishna
 Semantic Web Services in Action - Enterprise Information Integration (IP)
P. Deepti and B. Majumdar
- 4:00 – 5:30 **Parallel Session 8: Service Assembly (Room: EI 5)**
Chair: Vincenzo D'Andrea
 Improving Temporal-Awareness of WS-Agreement
C. Müller, O. Martín-Díaz, A. Ruiz-Cortés, M. Resinas, and P. Fernández
 Maintaining Data Dependencies Across BPEL Process Fragments
R. Khalaf, O. Kopp, and F. Leymann
 Supporting Dynamics in Service Descriptions - The Key to Automatic Service Usage
U. Küster and B. König-Ries

Wednesday, September 19, 2006

- 8:00 *Conference Registration opens*
- 8:30 – 10:30 **Overview and Panel Session II: SOA Governance (Room: EI 3)**
Chair: Robert Johnson
SOA Governance and the Enablement of Transformation
Panel moderator
Gregor Hohpe, Google
Panel members
Chris Harding, OpenGroup; Steve Jones, CapGemini; David Bressler, Progress; Tony Carrato, IBM
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 12:30 **Parallel Session 9: Service Properties (Room: EI 2)**
Chair: Rania Khalaf
Policy Based Messaging Framework (IP)
M. Eggenberger, N. Prakash, K. Matsumoto, and D.l Thurmond
Grid Application Fault Diagnosis Using Wrapper Services and Machine Learning
J. Hofer and T. Fahringer
Service Design Process for Reusable Services: Financial Services Case Study (IP)
A. Erradi, N. Kulkarni, and P. Maheshwari
- 11:00 – 12:30 **Parallel Session 10: Service Modeling (Room: EI 5)**
Chair: Winfried Lamersdorf
Stochastic COWS
D. Prandi and P. Quaglia
Service License Composition and Compatibility Analysis
G.R. Gangadharan, M. Weiss, V. D'Andrea, and R. Iannella
Dynamic Requirements Specification for Adaptable and Open Service-Oriented Systems
I.J. Jureta, S. Faulkner, and P. Thiran
- 11:00 – 12:30 **Parallel Session 11: SOA Composition (Room: EI 3)**
Chair: Michael Maximilien
High Performance Approach for Multi-QoS Constrained Web Services Selection
L. Li, J. Wei, and T. Huang
Negotiation of Service Level Agreements: An Architecture and a Search-Based Approach
E. Di Nitto, M. Di Penta, A. Gambi, G. Ripa, and M.L. Villani
Byzantine Fault Tolerant Coordination for Web Services Atomic Transactions
W. Zhao
- 12:30 – 1:30 *Lunch (on your own)*
- 1:30 – 3:00 **Parallel Session 12: SOA Governance (Room: EI 3)**
Chair: Stefan Tai
Contextualized B2B Registries (IP)
U. Radetzki, M.J. Boniface, and M. Surridge
Bridging Architectural Boundaries Design and Implementation of a Semantic BPM and SOA Governance Tool (IP)
C.F. Strnadl
SOA and Large Scale and Complex Enterprise Transformation (IP)
M. Kavianpour
- 1:30 – 3:00 **Parallel Session 13: SOA Experience (Room: EI 2)**
Chair: Paolo Traverso
Syntactic Validation of Web Services Security Policies
Y. Nakamura, F. Sato, and H.-V. Chung
An Agent-Based, Model-Driven Approach for Enabling Interoperability in the Area of Multi-brand Vehicle Configuration
I. Zinnikus, C. Hahn, M. Klein, and K. Fischer

User-Driven Service Lifecycle Management – Adopting Internet Paradigms in Telecom Services

J.C. Yelmo, R. Trapero, J.M. del Álamo, J. Sienel, M. Drewniok, I. Ordás, and K. McCallum

1:30 – 3:00

Parallel Session 14 (Short Papers): SOA Adoption (Room: EI 5)

Chair: Priya Narasimhan

Verifying Temporal and Epistemic Properties of Web Service Compositions

A. Lomuscio, H. Qu, M. Sergot, and M. Solanki

Facilitating Mobile Service Provisioning in IP Multimedia Subsystem (IMS) Using Service Oriented Architecture

I. Radovanovic, A. Ray, J. Lukkien, and M. Chaudron

eServices for Hospital Equipment

M. de Jonge, W. van der Linden, and R. Willems

Using Reo for Service Coordination

A. Lazovik and F. Arbab

3:00 – 7:30

Social Event: Visit of Schloss Schönbrunn (please bring your social event voucher)

7:30 – 10:00

Dinner: Vienna City Hall (please bring your conference dinner voucher)

Thursday, September 20, 2006

- 8:00 *Conference Registration opens*
- 8:30 – 10:30 **Overview and Panel Session III: Registries and SOA (Room: EI 3)**
Chair: Stefano De Panfilis
The Fusion of SOA and Grid: Next Generation Runtime Environments
David Chappell, Oracle
Panel moderator
David Chappell, Oracle
Panel members
Gregor Hohpe, Google; Steve Jones, CapGemini; Tony Carrato, IBM
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 12:30 **Parallel Session 15: SOA Runtime (Room: EI 3)**
Chair: Marco Aiello
Run-Time Monitoring for Privacy-Agreement Compliance
S. Benbernou, H. Meziane, and M.S. Hacid
Task Memories and Task Forums: A Foundation for Sharing Service-Based Personal Processes
R. Bova, H.-Y. Paik, B. Benatallah, L. Zeng, and S. Benbernou
Run-Time Adaptation of Non-functional Properties of Composite Web Services Using Aspect-Oriented Programming (IP)
N.C. Narendra, K. Ponnalagu, J. Krishnamurthy, and R. Ramkumar
- 11:00 – 12:30 **Parallel Session 16 (Short Papers): Service Modeling (Room: EI 5)**
Chair: Jianwen Su
A Context-Aware Service Discovery Framework Based on Human Needs Model
N. Ghadiri, M.A. Nematbakhsh, A. Baraani-Dastjerdi, and N. Ghasem-Aghaee
Weight Assignment of Semantic Match Using User Values and a Fuzzy Approach
S.A. Ludwig
Grounding OWL-S in SAWSDL
M. Paolucci, M. Wagner, and D. Martin
- 12:30 – 1:30 *Lunch (on your own)*
- 1:30 – 3:30 **Parallel Session 17: SOA Runtime (Room: EI 3)**
Chair: Mansour Kavianpour
Software as a Service: An Integration Perspective (IP)
W. Sun, K. Zhang, S.-K. Chen, X. Zhang, and H. Liang
Building Data-Intensive Grid Applications with Globus Toolkit – An Evaluation Based on Web Crawling (IP)
A. Walter, K. Böhm, and S. Schosser
QoS-Aware Web Service Compositions Using Non-intrusive Policy Attachment to BPEL (IP)
A. Charfi, R. Khalaf, and N. Mukhi
Execution Optimization for Composite Services Through Multiple Engines (IP)
W. Li, Z. Zhao, J. Fang, and K. Chen
- 1:30 – 3:30 **Parallel Session 18 (Short Papers): QoS and Composite Service Support (Room: EI 5)**
Chair: Wenbin Zhao
A Declarative Approach for QoS-Aware Web Service Compositions
F. Baligand, N. Rivierre, and T. Ledoux
Supporting QoS Negotiation with Feature Modeling
M. Fantinato, I.M. de S. Gimenes, and M.B.F. de Toledo
A Multi-criteria Service Ranking Approach Based on Non-Functional Properties Rules Evaluation
I. Toma, D. Roman, D. Fensel, B. Sapkota, and J.M. Gomez
A Development Process for Self-adapting Service Oriented Applications
M. Autili, L. Berardinelli, V. Cortellessa, A. Di Marco, D. Di Ruscio, P. Inverardi, and M. Tivoli

Automated Dynamic Maintenance of Composite Services Based on Service Reputation

D. Bianculli, R. Jurca, W. Binder, C. Ghezzi, and B. Faltings

Addressing the Issue of Service Volatility in Scientific Workflows

K. Belhajjame

3:30 – 4:00

Closing Session (Room: EI 3)