ICSOC 2014

12th International Conference on Service Oriented Computing

Paris, 3-6 November 2014

PROGRAM

IBM Research · TELECOM SudParis · Institut Mines-Télécom · s@movar CNRS Institut TELECOM · Dauphine Université Paris · LAMSADE UMR CNRS 7243 · ser tech. Scientific Academy for Service Technology

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Joseph Sifakis **Nov. 04, 2014**

Rigorous System Design

We advocate rigorous system design as a coherent and accountable model-based process leading from requirements to implementations. We present the state of the art in system design, discuss its current limitations, and identify possible avenues for overcoming them.
A rigorous system design flow is defined as a formal accountable and iterative process composed of steps, and based on four principles: (1) separation of concerns; (2) component-based construction; (3) semantic coherency; and (4) correctness-by-construction. We show that the combined application of these principles allows the definition of rigorous design flows clearly identifying where human intervention and ingenuity are needed to resolve design choices, as well as activities that can be supported by tools to automate tedious and error-prone tasks. An implementable system model is progressively derived by source-to-source automated transformations in a single host component-based language rooted in well-defined semantics. Using a single modeling language throughout the design flow enforces semantic coherency. Correct-by-construction techniques allow well-known limitations of a posteriori verification to be overcome and ensure accountability. It is possible to explain, at each design step, which among the requirements are satisfied and which may not be satisfied.

The presented view has been amply implemented in the BIP (Behavior, Interaction, Priority) component framework and substantiated by numerous experimental results showing both its relevance and feasibility. We show in particular, how distributed implementations can be generated from BIP models with multiparty interactions by application of correct-by-construction transformations

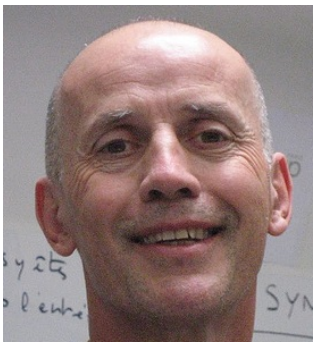
Joseph Sifakis *is a Greek-born French computer scientist, laureate of the 2007 Turing Award, along with Edmund M. Clarke and E. Allen Emerson, for his work on model checking. He was born in Heraklion, Crete in 1946 and studied Electrical Engineering at the National Technical University of Athens and Computer Science at the University of Grenoble under a French scholarship. He received a doctorate in 1974 from the University of Grenoble, where he also received a state doctorate in 1979. He was awarded in 2009 a Dr. h.c. from the École Polytechnique Fédérale de Lausanne, Switzerland, where he has been appointed Full Professor in 2011 (at the School of Computer and Communication Sciences). Sifakis lives in France, whose citizenship he took in 1976 and works for the Centre national de la recherche scientifique at the VERIMAG laboratory near Grenoble, of which he is a founder. He is also coordinator of Artist2, the European Network of Excellence for research on Embedded Systems. He is a grand officer of France's national order of merit and commander in France's Legion of Honour.*

Nov. 05, 2014 **François Bancilhon**

Applying data science to firmographics

Data science is now fashionable and the search for data scientists is a new challenge for headhunters. Even though both terms are fuzzy and subject to hype and buzzword mania, data science includes data collection, data cleansing, data management, data analytics, and data vizualisation, and a data scientist is a person who can master some or all of these techniques (or sciences). At Data Publica, we are applying data science to firmographics (firmographics is to organizations what demographics is to people), and we are using firmographics to answer the needs of B2B sales and marketing departments. This talk will present the techniques we use and some of the amazing results they produce.

François Bancilhon *is currently CEO of Data Publica, a key actor of the Open Data / Big Data space in France. He has co-founded and/or managed several software startups in France and in the US (Data Publica, Mandriva, Arioso, Xyleme, Ucopia, O2 Technology). Before becoming an entrepreneur, François was a researcher and a university professor, in France and the US, specializing in database technology. François holds an engineering degree from the École des Mines de Paris, a PhD from the University of Michigan and a Doctorate from the University of Paris XI.*



The 4th International Workshop on Cloud Computing and Scientific Applications (CCSA)

CCSA workshop has been formed to promote research and development activities focused on enabling and scaling scientific applications using distributed computing paradigms, such as cluster, Grid, and Cloud Computing. To address the growing needs of both applications and Cloud computing paradigm, CCSA brings together researchers and practitioners from around the world to share their experiences, to focus on modelling, executing, and monitoring scientific applications on Clouds.

In this workshop, we are interested in receiving innovative work on enabling and scaling computing systems to support the execution of scientific applications. The target audience include researchers and industry practitioners who are interested in distributed systems, particularly focusing on scaling of applications using Cloud computing.

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Dr. Xuyun (Sean) Zhang	The University of Melbourne, Australia

FORmal MOdeling and VErification of Service-based systems

During the few last years the use of formal approaches for the modeling and the verification of service-based processes is increasingly widespread. On the one hand, formal modeling allows one to define unambiguous semantics for the languages and protocols used for the specification of service oriented systems. On the other hand, formal verification approaches are popular means of checking the correctness properties of these applications, such as safety, liveness, QoS requirements and security. Such properties can be considered as a behavioral criteria for compatibility between different local services/processes.

The aim of FOR-MOVES workshop is to provide a venue for the presentation and discussion of new ideas and work in progress in formal modeling and verification methods, in the field of Service Oriented Computing (SOC).

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First International Workshop on Knowledge Aware Service Oriented Applications

Service oriented computing is widely accepted for building interoperable, dynamic and adaptive systems. However, in spite of the tremendous advances and adoption, a considerable manual work is still required to align the implementation of service-based systems with business and end-users requirements.

Several efforts have been interested in bridging the gap between business and end-users level on one hand and the implementation and technical layer on the other hand. Initially driven by semantic Web technologies, the proposed and emergent approaches adopt new techniques such as formal concept analysis, information retrieval, social based recommendation, natural language processing, and statistical analysis and mining. Typically, these approaches abstract from/complement technical details and focus on services and BP from a semantic and knowledge perspective. The ultimate goal is managing service-oriented applications from a business and semantic level.

The efforts made by both Semantic Web and SOA research communities have led to the present SOA standards where ontologies and other formal frameworks can be considered in several ways to improve SOA frameworks efficiency. However, reaching the level of natively and fully semantic aware SOA frameworks is still a challenging task. The workshop aims at bringing together researchers and practitioners working in semantically enabled and knowledge aware service oriented systems in order to present, discuss and share original research works and practical experience.

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Walid Gaaloul, Télécom SudParis, France
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1st Workshop on Resource Management in Service-Oriented Computing

In business processes, the term resource jointly implies both human and non- human resources. The former are people that take part in the execution of process activities at different levels and are typically referred to as organizational perspective, e.g., performers, or people accountable for work. Non-human resources involve all other things that are necessary to complete process activities, such as software, or IT-devices. The business-process lifecycle comprises several phases that we summarize as design time, run-time and evaluation time, and resource management is involved in all of them.

Several communities conduct research in the area of resource management in business processes, e.g., in the agents-, or the BPM-research community. Thus, different approaches exist to model organizational structures and to handle the way in which resources are designed, used and analyzed. Until recently, the main research focus in the BPM community has been intra-organizational. However, the emergence of Business-Process-as-a-Service (BPaaS) in cloud computing environments requires managing resources both intra- and inter-organizationally by means of service-oriented computing. Furthermore, as a trend, organizations increasingly outsource (parts of) their business processes and/or crowdsource workforce for activity completion in a distributed way, e.g., by using Mechanical Turk, or Social Compute Units that incorporate humans and IT-services. Consequently, inter-organizational business processes are a trending research domain. The advent of social computing and crowdsourcing solutions can improve current approaches by providing new mechanisms to organize and coordinate collaborative, distributed work. Consequently, new research challenges emerge for resource management throughout all the phases of the business-process lifecycle.

The goal of this workshop is to explore resource management in service-oriented computing both in intra-organizational processes with intensive resource needs, and in inter-organizational collaborations where organizations outsource process activities that involve resource-related requirements for individual, or collaborative work execution. For example, conditions that human resources must meet in order to participate in activity execution, or specific software required for activity completion.

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The Third International Workshop on Self-Managing Pervasive Service Systems

SeMaPS 2014 is soliciting papers on broad topics for autonomous pervasive service systems, especially big data processing topics for pervasive systems. This covers big data systems for IoT/IoP/IoS, software engineering research for achieving self-management capabilities, artificial intelligence research to be built into autonomous systems, context-awareness research to facilitate the implementation of self-managed systems, approaches and tools for building pervasive service systems which can span across small devices and powerful computing node including cloud nodes, social networking, pattern recognition and other related research for achieving context-awareness, new applications and demos for pervasive service systems and autonomous systems.

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ISC 2014 - INTELLIGENT SERVICE CLOUDS WORKSHOP

The workshop on "Intelligent Service Clouds" follows the increasing interest in big data, cloud, analytics services and rich combinations with human driven services. We use the term intelligent service clouds as a broad category of (1) cloud deployed, defined, operated or enabled services or ecosystems which may (2) leverage the power of automated and human-centric services, (3) in order to enable creation of insights or value, (4) potentially operating with big data. Here intelligent may refer to many possible capabilities - e.g., the ability to generate insights; or the ability to enable new types or styles of collaborations within or between enterprises; or the ability of services to adapt to changing environments, etc. The goal of the workshop is to provide a platform for exploring this exciting landscape and new challenges in the context of intelligent service clouds. It aims at bringing together researchers from various communities interested in the challenges.

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The 10th International Workshop on Engineering Service-Oriented Applications

WESOA complements ICSOC by focusing on core software engineering issues in the context of service-oriented systems, keeping pace with emerging application areas of service computing that include mobile, social and cloud computing. The WESOA workshop encourages radically new approaches that address the challenges that arise from these unique characteristics of service-oriented applications, focusing on principles, methodologies and tools that support service-oriented SLDC. Our aim is to facilitate exchange and evolution of ideas in service engineering research across multiple disciplines and to encourage participation of researchers from academia and industry. To promote collaboration the WESOA workshop has a highly interactive format with technical sessions complemented by extensive discussions. WESOA 2014 will continue a successful series of ICSOC workshops started in Amsterdam in 2005. Over the last nine years WESOA workshop has demonstrated its relevance by attracting a large number of participants, and producing high-quality papers that were published by Springer LNCS series and in a special issue of the IJCSSE journal.

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CONFERENCE PROGRAM

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Room: R. Aron</td><td colspan="2"></td></tr>
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François Bancilhon
Applying data science to firmographics
Room: R. Aron</td><td>Quality of Service
Room: R. Aron</td><td>Trust_
Room: Amphi 5</td></tr>
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<tr><td>11:00 - 12:30</td><td>Business Process Management I
Room: R. Aron</td><td>Service Composition and Discovery
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Room: R. Aron</td><td>Cloud Service Management I
Room: Amphi 5</td><td>Business Service Management
Room: R. Aron</td><td>Workshop Summaries
Room: Amphi 5</td></tr>
<tr><td>12:30 - 13:30</td><td colspan="2">Lunch</td><td colspan="2">Lunch</td><td colspan="2">Lunch</td></tr>
<tr><td>13:30 - 15:00</td><td>Business Process Management II
Room: Amphi 5</td><td>Demos
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Challenges and Opportunities for Cloud
and Services Computing
Room: R. Aron</td><td>Industry Papers
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Room: R. Aron</td></tr>
<tr><td>15:00 - 15:30</td><td colspan="2">Coffee Break</td><td colspan="2">Coffee Break</td><td colspan="2">Farewell and Presentation of ICSOC 2015</td></tr>
<tr><td>15:30 - 16:30</td><td rowspan="2">Service Management and Evolution
Room: R. Aron</td><td rowspan="3">Service Composition and Ensuring Composition Properties
Room: Amphi 5</td><td>Service Design and Description II
Room: R. Aron</td><td rowspan="3">Cloud Service Management II
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<tr><td>16:30 - 17:00</td><td rowspan="2"></td></tr>
<tr><td>17:00 - 17:30</td><td rowspan="2"></td></tr>
<tr><td>18:00 - 19:30</td><td rowspan="2"></td><td rowspan="3"></td><td rowspan="2"></td></tr>
<tr><td>19:30 - 20:30</td><td colspan="2">Visit of Eiffel Tower</td></tr>
<tr><td>20:30 - 23:00</td><td>Workshops Reception</td><td colspan="2">Conference Social Event
(Diner and Awards)</td></tr>
</table>

TUESDAY, **04**

Opening, welcome greeting

R. Aron | 09:00 ↘ 09:15

Keynote I

Rigorous System Design

Sifakis, Joseph

R. Aron | 09:15 ↘ 10:30

Session Chair: **Prof. Mike Papazoglou**

Business Process Management I

R. Aron | 11:00 ↘ 12:30

Session Chair: **Prof. Stefanie Rinderle-Ma**

Configuration Rule Mining for Variability Analysis in Configurable Process Models
Assy, Nour; Gaaloul, Walid

ProcessBase: A Hybrid Process Management Platform
Barukh, Moshe Chai; Benatallah, Boualem

A Multi-Objective Approach to Business Process Repair
Di Francescomarino, Chiara; Tiella, Roberto; Ghidini, Chiara; Tonella, Paolo

Service Composition and Discovery

Amphi 5 | 11:00 ↘ 12:30

Session Chair: **Prof. Schahram Dustdar**

A Dynamic Service Composition Model for Adaptive Systems in Mobile Computing Environments
Chen, Nanxi; Clarke, Siobhán

Optimal and automatic transactional web service composition with dependency graph and 0-1 linear programming
Gabrel, Virginie; Manouvrier, Maude; Murat, Cécile

A Framework for Searching Data and Services with SPARQL
Mouhoub, Mohamed Lamine; Grigori, Daniela; Manouvrier, Maude

Business Process Management II

13:30 ↓ 15:00 — Amphi 5

Session Chair: **Prof. Jan Mendling**

Memetic Algorithms for Mining Change Logs in Process Choreographies
Fdhila, Walid; Rinderle-Ma, Stefanie; Indiono, Conrad

Flexible Batch Configuration in Business Processes based on Events
Pufahl, Luise; Herzberg, Nico; Meyer, Andreas; Weske, Mathias

Automatic Generation of Optimized Workflow for Distributed Computations on Large-Scale Matrices
Sabry, Farida; Nassar, Mohamed; Erradi, Abdelkarim; Malluhi, Qutaibah

DEMOS

13:30 ↓ 15:00 — R. Aron

Session Chair: **Prof. Olivier Perrin**

WS-Portal: An Enriched Web Services Search Engine.
Bourne, Scott; Szabo, Claudia; Sheng, Quan

SmartPM: Automated Adaptation of Dynamic Processes.
Marrella, Andrea; Mecella, Massimo; Sardina, Sebastian; Tucceri, Paola

WS-Portal: An Enriched Web Services Search Engine.
Aznag, Mustapha; Quafafou, Mohamed; Jarir, Zahi

SUPER: Social-based Business Process Management Framework.
Maamar, Zakaria; Sakr, Sherif

Service Management and Evolution

15:30 ↓ 17:30 — R. Aron

Session Chair: **Prof. Flavio De Paoli**

Detection of REST Patterns and Antipatterns: A Heuristics-based Approach
Palma, Francis; Dubois, Johann; Moha, Naouel; Guéhéneuc, Yann-Gaël

How Do Developers React to Web API Evolution?
Wang, Shaohua; Keivanloo, Iman; Zou, Ying

(SHORT) *Choreographing Services Over Mobile Devices*
Ahmed, Tanveer; Srivastava, Abhishek

(SHORT) *Adaptation of Asynchronously Communicating Software*
Canal, Carlos; Salaün, Gwen

(SHORT) *Handling Irreconcilable Mismatches in Web Services Mediation*
Qiao, Xiaoqiang; Sheng, Quan. Z.; Chen, Wei

Service Composition and Ensuring Composition Properties

Amphi 5

15:30 ↓ 17:30

Session Chair: **Prof. Liang Zhang**

Conformance for DecSerFlow Constraints
Sun, Yutian; Su, Jianwen

Integrating on-policy reinforcement learning with multi-agent techniques for adaptive service composition
Wang, Hongbing; Chen, Xin; Wu, Qin; Yu, Qi; Zheng, Zibin; Bouguettaya, Athman

(SHORT) *On Enabling Time-aware Consistency of Collaborative Cross-Organisational Business Processes*
Cheikhrouhou, Saoussen; Kallel, Slim; Guermouche, Nawal; Jmaiel, Mohamed

(SHORT) *Designing Secure Service Workflows in BPEL*
Pino, Luca; Mahbub, Khaled; Spanoudakis, George

(SHORT) *Failure-Proof Spatio-Temporal Composition of Sensor-Cloud Services*
Ghari Neiat, Azadeh; Bouguettaya, Athman; Sellis, Timos; Dong, Hai

WEDNESDAY, **05**

09:00 ↓ 09:15 R. Aron

Announcements

09:15 ↓ 10:30 R. Aron

Keynote II

Applying data science to

Bancilhon, François

Session Chair: **Prof. Bruno Defude**

11:00 ↓ 12:30 R. Aron

Service Design and Description I

Session Chair: **Prof. Cesare Pautasso**

An agent-based service marketplace for dynamic and unreliable settings
Barakat, Lina; Mahmoud, Samhar; Miles, Simon; Taweel, Adel; Luck, Michael

Architecture-centric Design and Configuration of Complex Service Systems
Dorn, Christoph; Waibel, Philipp; Dustdar, Schahram

(SHORT) *Decidability and Complexity of Simulation Preorder for Data-Centric Web Services*
Akroun, Lakhdar; Benatallah, Boualem; Nourine, Lhouari; Toumani, Farouk

(SHORT) *Market-optimized Service Specification and Matching*
Arifulina, Svetlana; Platenius, Marie Christin; Gerth, Christian; Becker, Steffen; Engels, Gregor; Schaefer, Wilhelm

Cloud Service Management I

Amphi 5

11:00 ↓ 12:30

Session Chair: **Prof. Alistair Barros**

ADVISE -- a Framework for Evaluating Cloud Service Elasticity Behavior
Copil, Georgiana; Trihinas, Demetris; Truong, Hong-Linh; Moldovan, Daniel; Pallis, George; Dustdar, Schahram; Dikaiakos, Marios

Transforming Service Compositions Into Cloud-Friendly Actor Networks
Ivanovic, Dragan; Carro, Manuel

(SHORT) *Evaluating Cloud Users' Credibility of Providing Subjective Assessment or Objective Assessment for Cloud Services*
Qu, Lie; Wang, Yan; Orgun, Mehmet; Wong, Duncan; Bouguettaya, Athman

(SHORT) *Composition of Cloud Collaborations under Consideration of Non-Functional Attributes*
Wenge, Olga

Panel

Collective Adaptive Systems: Challenges and Opportunities for Cloud and Services Computing

R. Aron

13:30 ↓ 15:00

Moderator: **Hong-Linh Truong**, Vienna University of Technology

Panelists:

- Antonio Brogi, University of Pisa, Italy
- Florian Daniel, University of Trento, Italy
- Schahram Dustdar, Vienna University of Technology, Austria
- Aditya Ghose, University of Wollongong, Australia
- Andreas Metzger, University of Duisburg-Essen, Germany

15:30 ↓ 17:30 R. Aron

Service Design and Description II

Session Chair: **Prof. Boualem Benatallah**

Managing Expectations: Runtime Negotiation of Information Quality Requirements in Event-based Systems
Frischbier, Sebastian; Pietzuch, Peter; Buchmann, Alejandro

C2P:Co-operative Caching Policy for distributed storage systems
Nadgowda, Shripad; Gupta, Sanchit; Sreenivas, Chaitanya R; Gupta, Neha; Verma, Akshat

(SHORT) *Weak Conformance of Control Flow and Data Object Behavior in Business Process Models*
Meyer, Andreas; Weske, Mathias

13:30 ↓ 15:00 Amphi 5

Cloud Service Management II

Session Chair: **Prof. Farouk Toumani**

A Runtime Model Approach for Data Geo-Location Verification of Cloud Services
Schmieders, Eric; Metzger, Andreas; Pohl, Klaus

Heuristic Approaches for Robust Cloud Monitor Placement
Siebenhaar, Melanie; Schuller, Dieter; Wenge, Olga; Steinmetz, Ralf

Compensation-based vs. Convergent Deployment Automation for Services Operated in the Cloud
Wettinger, Johannes; Breitenbücher, Uwe; Leymann, Frank

(SHORT) *Bottleneck Detection and Solution Recommendation for Cloud-based Multi-Tier Application*
Yao, Jinhui; Jung, Gueyoung

THURSDAY, **06**

Quality of Service

R. Aron

09:15 ↓ 10:30

Session Chair: **Prof. Athman Bouguettaya**

(SHORT) *Probabilistic prediction of the QoS of service orchestrations: A truly compositional approach*
Bartoloni, Leonardo; Brogi, Antonio; Ibrahim, Ahmad

(SHORT) *QoS-aware Complex Event Service Composition and Optimization using Genetic Algorithms*
Gao, Feng; Curry, Edward; Intizar, Ali; Bhiri, Sami; Mileo, Alessandra

(SHORT) *Towards QoS Prediction Based on Composition Structure Analysis and Probabilistic Environment Models*
Ivanovic, Dragan; Carro, Manuel; Kaowichakorn, Peerachai

Trust

Amphi 5

09:15 ↓ 10:30

Session Chair: **Dr. Gargi Dasgupta**

(SHORT) *A Novel Equitable Trustworthy Mechanism for Service Recommendation in the Evolving Service Ecosystem*
Huang, Keman; Liu, Yi; Nepal, Surya; Fan, Yushun; Chen, Shiping; Tan, Wei

(SHORT) *Message Content-Aware Evolution of Trust Negotiation Protocols in Cloud Collaboration*
Ryu, Seung Hwan; Erradi, Abdelkarim; Khan, Khaled M.; Alhazbi, Saleh; Benatallah, Boualem

(SHORT) *Social Context-aware Trust Prediction in Social Networks*
Zheng, Xiaoming; Wang, Yan; Orgun, Mehmet A.; Liu, Guanfeng; Zhang, Haibin

11:00 ↓ 12:30 R. Aron

Business Service Management

Session Chair: **Prof. Hong-Linh Truong**

How to Enable Multiple Skill Learning in a Service System
Agarwal, Shivali; Kalra, Sumit; Dasgupta, Gaargi

(SHORT) *Towards Auto-Remediation in Service Delivery: Context-based Classification of Noisy and Unstructured Tickets*
Dasgupta, Gargi B; Nayak, Tapan K; Akula, Arjun R; Agarwal, Shivali; Nadgowda,Shripad J

(SHORT) *ITIL Metamodel*
Gama, Nelson; Vicente, Marco; Mira da Silva, Miguel

(SHORT) *Formal Modeling and Analysis of Home Care Plans*
Gani, Kahina; Bouet, Marinette; Schneider, Michel; Toumani, Farouk

(SHORT) *Effort Analysis Using Collective Stochastic Model*
Sreedhar, Vugranam

11:00 ↓ 12:30 Amphi 5

Workshop Summaries

13:30 ↓ 15:00 Amphi 5

Industry Papers

Session Chair: **Dr. Joyce El Haddad**

Runtime Management of Multi-level SLAs for Transport and Logistics Services
Marquezan, Clarissa Cassales; Metzger, Andreas; Franklin, Rod; Pohl, Klaus

Single Source of Truth (SSOT) for Service Oriented Architecture (SOA)
Pang, Candy; Szafron, Duane

(SHORT) *Model for Service Licensing in API Economy*
Vukovic, Maja; Zeng, Liangzhao; Rajagopal, Sriram

Semantic Web Services

R. Aron

13:30 ↓ 15:00

Session Chair: **Dr. Sami Bhiri**

(SHORT) *Orchestracting SOA using Requirement Specifications and Domain Ontologies*
Bhat, Manoj; Ye, Chunyang; Hans-Arno, Jacobsen

(SHORT) *Estimating Functional Reusability of Services*
Mohr, Felix

(SHORT) *Negative-connection-aware Tag-based Association Model for Service Recommendation in Mashup Ecosystem*
Ni, Yayu; Fan, Yushun; Huang, Keman; Bi, Jing; Tan, Wei

Farewell and Presentation of ICSOC 2015

R. Aron

15:00 ↓ 15:30

WORKSHOPS/PHD SYMPOSIUM PROGRAM

MONDAY, **03**

Time	PhD Symposium	CCSA- Cloud Computing and Scientific Applications	KASA - Knowledge Aware Service Oriented Applications	RMSOC - Resource Management in Service-Oriented Computing	FOR-MOVES - FORmal MOdeling and VerificAtion of Service-based systems SeMaPS - Self-Managing Pervasive Service Systems	ISC - Intelligent Service Clouds	WESOA - Engineering Service-Oriented Applications
Room	707	707	709	711	709	401	403
09:00 - 10:30		Keynote and Web Service QoS	Knowledge-aware Business Process Management	Opening and Keynote 1			Opening and Keynote
10:30 - 11:00		Coffee Break	Coffee Break	Coffee Break			Coffee Break
11:00 - 12:30		Cloud and Workflow/Business Process	Knowledge-aware Service Management	Resource Modeling and Discovery in Business Processes			Research Papers
12:30 - 13:30	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch	Lunch
13:30 - 15:00	Session I			Keynote 2	Services and Cloud	Session I	Research Papers & Discussion
15:00 - 15:30	Coffee Break			Coffee Break	Coffee Break	Coffee Break	Coffee Break
15:30 - 17:00	Session II			Resource Optimization in Business Processes	Self-Managing Pervasive Service Systems	Session II	
17:00 - 17:30	Break						
17:30 - 18:30	Session III						

CCSA: Cloud Computing and Scientific Applications

Keynote

707

09:00
↓
10:30

Web Service QoS

707

09:00
↓
10:30

An Incremental Tensor Factorization Approach for Web Service QoS Prediction
Zhang, Wancai

Cloud and Workflow/Business Process

707

11:00
↓
12:30

Vertical Scaling with OpenStack - Capabilites of Gust Operation Systems, Hypervisors, and the Cloud Management Platform
Turowski, Marian; Lenk, Alexander

Exploiting the Parallel Execution of Homology Workflow Variants in HPC Compute Clouds
Ocana, Kary; de Oliveira, Daniel; Silva, Vitor; Benza, Silvia; Mattoso, Marta

A Validation Method of Configurable Business Processes Based on Data-flow
Yiwang, Huang

KASA: Knowledge Aware Service Oriented Applications

09:00 ↓ 10:30 — 709

Knowledge-aware Business Process

Discovering and Categorizing Goal Alignments from Mined Process Variants
Ponnalagu, Karthikeyan; Ghose, Aditya; Narendra, Nanjangud C.; Dam, Hoa Khanh

Supporting Enterprise Changes Using Actor Performance Assessment
Jabloun, Marwen; Sayeb, Yemna; Ben Ghezala, Henda; Gaaloul, Khaled

Reasoning on Incomplete Execution Traces using Action Languages - A first report (SHORT)
Di Francescomarino, Chiara; Ghidini, Chiara; Tessaris, Sergio; Vazquez Sandoval Itzel

11:00 ↓ 12:30 — 709

Knowledge-aware Service Management

Towards a Framework for Semantically-enabled Compliance Management in Financial Services
Elgammal, Amal; Butler, Tom

A Planning-Based Service Composition Approach for Data-Centric Workflows
Lopez-Enriquez, Carlos-Manuel; Cuevas-Vicenttin, Victor; Vargas-Solar, Genoveva; Collet, Christine; Zechinelli-Martini, Jose-Luis

Semantic Web Services Approach For Collaboration In E-Gov Context (SHORT)
Latrache, Amal; Nfaoui, El habib; Boumhidi, Jaouad

RMSOC: Resource Management in Service-Oriented Computing

Opening and Keynote I

711

09:00 ↓ 10:30

The Role of Resources in Service-Dominant Business Design

Grefen, Paul

Resource Modeling and Discovery in Business Processes

711

11:00 ↓ 12:30

BPM supported Privacy by Design for Cross Organization Business Processes
Stevovic, Jovan; Sottovia, Paolo; Marchese, Maurizio; Armellin, Giampaolo

Resource-Aware Process Model Similarity Matching
Baumann, Michaela; Baumann, Michael Heinrich; Schonig, Stefan; Jablonski, Stefan

Supporting Rule-based Process Mining by User-Guided Discovery of Resource-Aware Frequent Patterns
Schonig, Stefan; Gillitzer, Florian; Zeising, Michael; Jablonski, Stefan

13:30 ↓ 15:00

711

Keynote II

Internet of Things, People, and Processes

Dustdar, Schahram

15:30 ↓ 17:00

711

Resource Modeling and Discovery in Business Processes

Learning "Good Quality" Resource Allocations from Historical Data
Sindhgatta, Renuka; Ghose, Aditya; Dasgupta, Gaargi Banerjee

Optimizing Resource Utilization by Combining Running Business Process Instances
Natschlager, Christine; Bogl, Andreas; Geist, Verena

Discussion and Closure

FOR-MOVES: FORmal MOdeling and VerificAtion of Service-based systems

Services and Cloud

709

13:30
↓
15:00

Parameterized Automata Simulation and Application to Service Composition
Belkhir, Walid; Chevalier, Yannick; Rusinowitch, Michael

Optimal Virtual Machine Placement in Multi-Tenant Cloud
Teyeb, Hana; Balma, Ali; Ben Hadj-Alouane; Nejib Tata; Samir

SeMaPS: Self-Managing Pervasive Service Systems

15:30 ↓ 17:00

709

Self-Managing Pervasive Service Systems

Developing Service Platform for Web Context-Aware Services Towards Self-Managing Ecosystem
Takatsuka, Hiroki; Saiki, Sachio; Matsumoto, Shinsuke; Nakamura, Masahide

Retrieving Sensors data in Smart Buildings through Services: a similarity algorithm
Foglieni, Claudia; Mazuran, Mirjana; Meroni, Giovanni Plebani, Pierluigi

User State Monitoring System on Android Smart Phones
Wang, Xun; Zhang, Weishan

ISC: Intelligent Service Clouds

Keynote

401

13:30 ↓ 15:00

Smart Manufacturing Clouds

Mike P. Papazoglou

Session I

401

13:30 ↓ 15:00

Domain Specific Monitoring of Business Processes Using Concept Probes
Mos, Adrian

Session II

401

15:30 ↓ 17:30

Contextualised security operation deployment through MDS@run.time architecture
Ouedraogo, Wendpanga Francis; Biennier, Frederique; Merle, Philippe

A Non-Parametric Data Envelopment Analysis Approach for Cloud Services Evaluation
Xu, Chunxiang; Ma, Yupeng; Wang, Xiaobo

Towards a Model for Resource Allocation in API Value Networks
Houghton, James; Siegel, Michael; Vukovic, Maja

Using COBIT 5 for Risk to Develop Cloud Computing SLA Evaluation Templates
Illoh, Onyeka; Aghili, Shaun; Butakov, Sergey

WESOA: Engineering Service-Oriented Applications

09:00 ↓ 10:30 | 403

Opening and Keynote

Building custom applications using Unicorn Universe services

Kokorceny, Michal

Chairs of WESOA

11:00 ↓ 12:30 | 403

Research Papers

Virtualizing Communication for Hybrid and Diversity-Aware Collective Adaptive Systems
Zeppezauer, Philipp; Scekic, Ognjen; Truong, Hong-Linh; Dustdar, Schahram

MoDAS: Methodology and Tool for Model-Driven Adaptable Services
Ortiz, Guadalupe; Peinado, Sonia; Garcia de Prado, Alfonso

Service Interface Synthesis in Business Networks
Wei, Fuguo; Barros, Alistair; Ouyang, Chun

13:30 ↓ 15:00 | 403

Research Papers & Discussion

GovOps: The Missing Link for Governance in Software-defined IoT Cloud Systems
Nastic, Stefan; Inzinger, Christian; Truong, Hong-Linh; Dustdar, Schahram

Cloud Migration Patterns: A Multi-Cloud Service Architecture Perspective
Jamshidi, Pooyan; Pahl, Claus; Chinenyeze, Samuel; Liu, Xiaodong

Wrap Up and Discussion

PhD Symposium

Session I

707

13:30 ↓ 15:00

MobiDisc: Semantic Web Service Discovery Approach in Mobile Environments
Ben Njima, Cheyma

Making Web Services Selection more Customized A Fuzzy-Logic-Theory-Based Approach
Chouiref, Zahira

A Description-based Service Search System
Caicedo-Castro, Isaac Bernardo

Keynote + Session II

707

15:30 ↓ 17:00

Three research perspectives on service-oriented computing
Mendling, Jan

Monitoring and Checking Privacy Policies of Cloud Services based on Models
Schmieders, Eric

Dynamic QoS Requirement Aware Service Composition and Adaptation
Tripathy Ajaya, Kumar

Session III

707

17:30 ↓ 18:30

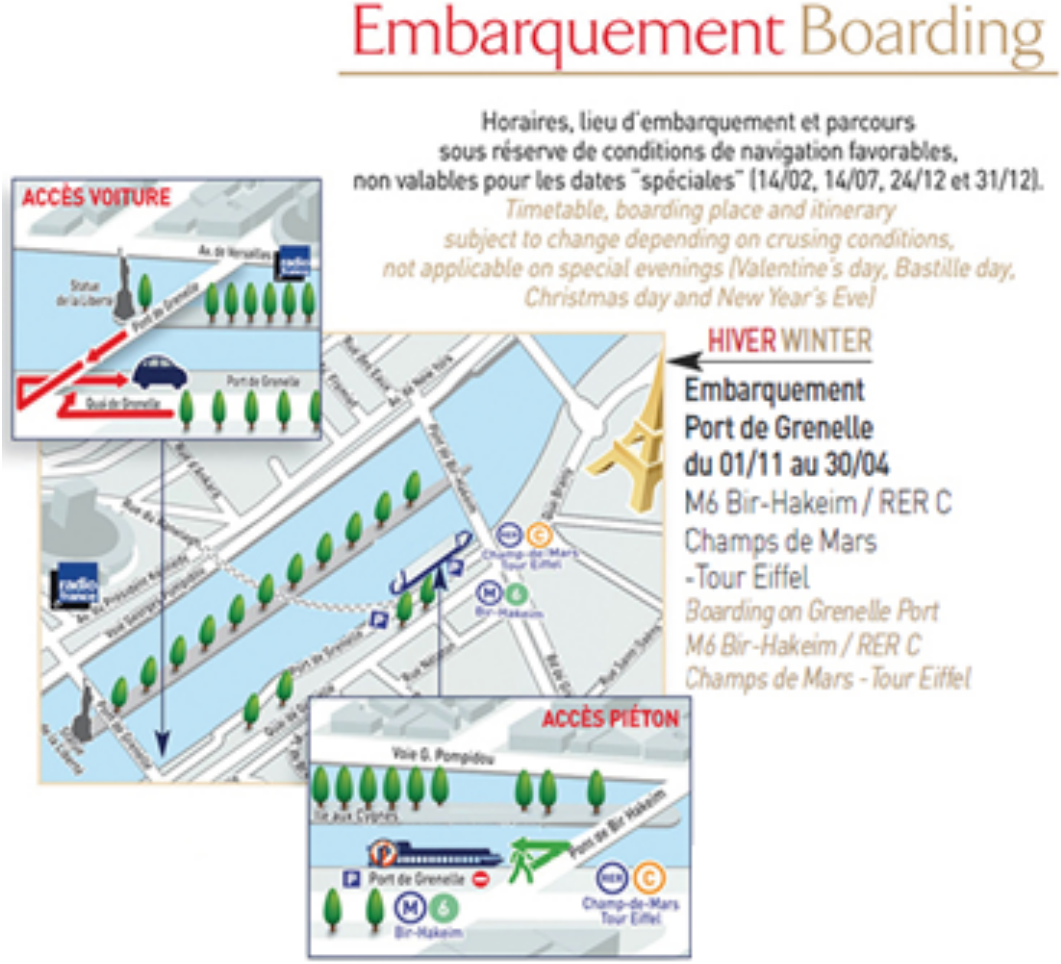
Dynamic Composite Web Service Execution by Providing Fault-tolerance and QoS monitoring
Angarita, Rafael

Service Map: A Service Hierarchy for Satisfying User's Requirement of Multiple Granularities
Du, Chu

Workshops Reception
(On-board Dinner)

MONDAY, **03**
20:30 – 23:00

Escale du Pont St Michel, Quai des Orfèvres, 75001 Paris



Conference Social Event

- Eiffel Tower visit
- Dinner and Award

WEDNESDAY, **05**

19:30 – 20:30

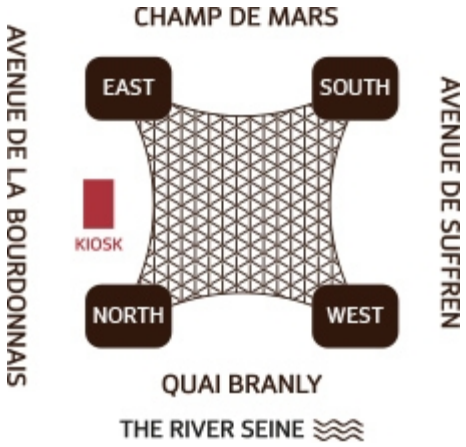
20:30 – 23:00

58 Tour Eiffel restaurant (1st floor of the Eiffel Tower)

Meeting point at the Kiosk from 18:30 to 19:30

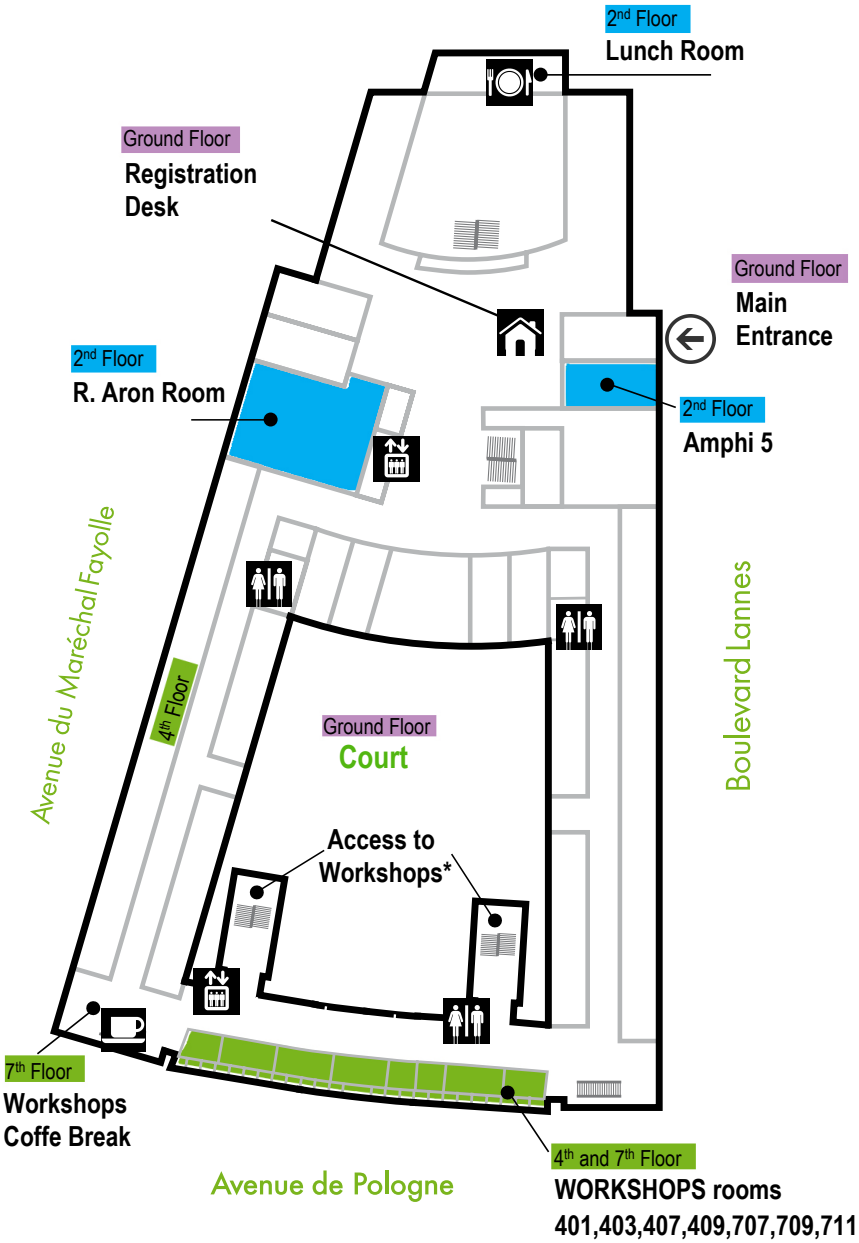
Public transport

1. Métro Ligne 6 Bir-Hakeim - Grenelle
2. RER C - Champ de Mars Tour Eiffel
3. Bus - 42, 69, 82, 87 - Champ de Mars



Metro/RER Stations M 2 RER C

50 meters



*The 7th floor is accesible only by the lift or by the indicated stairs

Main entrance

Registration desk

Lunch and coffee breaks room

Stairs

Coffee break during workshops

Workshop route

Conference route

DAUPHINE
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2	*Select*	**Visiteur Paris Dauphine**
3	*User Name*	**icsoc14**
4	*Password*	**ic;soc_14**