

[We apologise if you receive multiple copies of this message]

CALL FOR PAPERS

4th INT. WORKSHOP ON ADAPTIVE SERVICES FOR THE FUTURE INTERNET

WAS4FI 2014

Held in conjunction with ESOC 2014
September 2, 2014, Manchester, UK
<http://was4fi.lcc.uma.es>

Paper Submission Due: ~~May 30th, 2014~~ June 18th, 2014 (extended)

GOALS

=====

The Future Internet has emerged as a new initiative to pave a novel infrastructure linked to objects (things) of the real world to meet the changing global needs of business and society. It offers internet users a standardized, secure, efficient and trustable environment, which allows open and distributed access to global networks, services and information.

To be consistently adopted, the Future Internet will be enabled through standards-based notations for messaging, semantics, process and state (such as those RDF, OWL, SOAP, REST and WS-BPEL), enabling distributed systems and entities to be described in a scalable and flexible robust dynamic environment. Multi-tenancy will enable their remote access as Software as a Service (SaaS), by performing the integration into larger networks of communicating software (e.g., a mashup or a plug-in to a Cloud platform). Future Internet applications will have to support the interoperability between many diverse stakeholders by governing the convergence and life-cycle of Internet of Contents (IoC), Services (IoS), Things (IoT), and Networks (IoN). These applications should handle dynamic and continuous change: for example, in the provisioning of services, availability of things and contents, connectivity of networks, diversity of user devices etc. They should also bear in mind that the Future Internet should provide a better experience for the user journey, with personalized and context-aware contents, adapted to their preferences, and where users also play an active part in creating or sharing services.

There is a need for both researchers and practitioners to develop platforms made up of adaptive Future Internet applications. In this sense, the emergence and consolidation of Service-Oriented Architectures (SOA), Cloud Computing and Wireless Sensor Networks (WSN) give benefits, such as flexibility, scalability, security, interoperability, and adaptability, for building these applications. Although there already are emerging solutions to host software services and data on remote computers and create public sensor networks by using these technologies; the mentioned solutions employ simple technical approaches related to replication strategies to ensure availability and to achieve a load-

balancing scalability. Future Internet systems, however, will also need to sense and respond to a huge amount of signals sourced from different entities in real-time. In this context, an event would be detected if, for example, there is non-existence of a signal which normally occurs, affecting the execution of other services. These events would be produced by IoT and processed in the IoS. In order to build business level events Complex Event Processing (CEP) may be used. CEP allows detecting complex and meaningful events and inferring valuable knowledge for end users. The main advantage of using CEP to process complex events is that the latter can be identified and reported in real time, reducing the latency in decision making, unlike the methods used in traditional software for event analysis. Event-Driven Service-Oriented Architectures (ED-SOA or SOA 2.0) are also being used to respond to events that occur as a result of business processes.

The first edition of WAS4FI was held in conjunction with ServiceWave 2011, in Poznan, Poland, on October 28th 2011. The second edition was held in conjunction with ESOC 2012, in Bertinoro, Italy, on September 19th 2012. The third edition was also held in conjunction with ESOC 2013, in Málaga, Spain, on September 11th 2013. In this fourth edition, WAS4FI again aims to bring together the community at ESOC and addresses different aspects of adaptive Future Internet applications, emphasizing the importance of governing the convergence of contents, services, things and networks in order to achieve building platforms for efficiency, scalability, security and flexible adaptation. In this workshop, we cover the foundations of the aforementioned technologies as well as new emerging proposals for their potential in Future Internet services. To promote collaboration, WAS4FI has a highly interactive format with short technical sessions complemented by discussions on Adaptive Services in the Future Internet Applications.

TOPICS

=====

WAS4FI encourages a multidisciplinary perspective and welcomes papers that address challenges of Future Internet applications. Participation of researchers and practitioners from academia and industry are encouraged in order to promote cross-community interactions and thus avoiding disconnection between these groups. Topics of the workshop include, but are not limited to:

- Service-Oriented Architectures (SOA)
- Cloud Computing Environments (IaaS, PaaS and SaaS)
- Services Mashups Development
- Service Discovery, Semantic Web and Ontology
- Secure Data Management and Adaptation, Privacy and Trust
- Self-Adaptive Services and Applications and Autonomic Computing
- Context-Aware, Mobile and Pervasive Adaptive Services on the Cloud
- Emerging Internet of Things Business Models
- Business Models for Quality of Services (QoS) and Cost of Services (CoS)
- Adaptation Contract and Service Level Agreements (SLA)
- Service Adaptive Composition, Orchestration and Choreography
- Dynamic Adaptation of Services on the Cloud
- Dynamic Internet Content Delivery
- Run-Time Monitoring, Services Evolution and Maintenance
- Model-Driven SOA and Service Systems Deployment

- Sensor Web Enablement and Web-Connected Devices (Sensor Web, smartphone, RFID)
- Services Computing in Wireless Sensor Networks (WSN) and Mobile Ad-hoc Networks (MANET)
- Service-Oriented Middleware Deployment for Sensor as a Service
- Software Engineering for Sensors in the Internet of Things (IoT)
- Formal Methods in Services Computing
- SOA Reference Models and Frameworks to Adaptive Services
- Event-Driven Service-Oriented Architectures (ED-SOA or SOA 2.0)
- Complex Event Processing
- Linked Open Data
- Software Service Engineering (SSE) Practices, Case Studies and Experience Reports
- Novel Applications based on Content Networks
- Application Scenarios as eHealth (AAL), Transport and Logistics (ITS), Smart Cities)

IMPORTANT DATES

=====

- Paper submission: ~~May 30th, 2014~~ June 18th, 2014 (extended deadline)
- Acceptance notification: ~~June 30th, 2014~~ July 4th, 2014
- Camera-ready papers: July 15th, 2014
- Workshop date: September 2nd, 2014

SUBMISSION INSTRUCTIONS

=====

Authors are invited to submit original, previously unpublished research papers in two categories. Both regular papers (must not exceed 12 pages) and short papers (must not exceed 8 pages) should be written in English and following LNCS format. Please, submit papers via the WAS4FI conference management tool (EasyChair submission system, <https://www.easychair.org/conferences/?conf=was4fi2014>) in PDF format. For formatting instructions and templates see the Information for LNCS authors in Springer website <http://www.springer.com/computer/lncs?SGWID=0-164-6-793341-0>

All submissions will be peer-reviewed by members of the international program committee. Paper acceptance will be based on originality, significance, technical soundness, and clarity of presentation. It is planned to publish the proceedings with Springer in their Communications in Computer and Information Science series (final approval pending). As in previous editions, we are also intending to consider the best papers to be extended for their publication in a Special Issue of a related International Journal or in a prestigious book.

At least one author of an accepted paper must register and participate in the workshop. Registration is subject to the terms, conditions and procedure of the main ESOC conference <http://esocc2014.cs.manchester.ac.uk/>

ORGANIZING COMMITTEE

=====

- Javier Cubo, University of Málaga, Spain
- Juan Boubeta-Puig, University of Cádiz, Spain
- Howard Foster, City University London, United Kingdom
- Winfried Lamersdorf, University of Hamburg, Germany
- Nadia Gámez, University of Málaga, Spain

PROGRAMME COMMITTEE

=====

- Marco Aiello, University of Groningen, The Netherlands
- Vasilios Andrikopoulos, University of Stuttgart, Germany
- Antonio Brogi, University of Pisa, Italy
- Florian Daniel, University of Trento, Italy
- Valeria de Castro, Universidad Rey Juan Carlos, Spain
- Gregorio Díaz, Universidad de Castilla La Mancha, Spain
- Schahram Dustdar, Vienna University of Technology, Austria
- Nadia Gámez, University of Málaga, Spain
- Laura González, Universidad de la República, Uruguay
- Alberto Lluch Lafuente, IMT Institute for Advanced Studies, Italy
- Tiziana Margaria, University of Potsdam, Germany
- Massimo Mecella, Univ. Roma La Sapienza, Italy
- Raffaella Mirandola, Politecnico di Milano, Italy
- Claus Pahl, Dublin City University, Ireland
- Ernesto Pimentel, University of Málaga, Spain
- Pascal Poizat, Université Paris Ouest, France
- Franco Raimondi, Middlesex University, United Kingdom
- Gustavo Rossi, Universidad Nacional de La Plata, Argentina
- Romain Rouvoy, University of Lille 1, France
- Antonio Ruiz, University of Sevilla, Spain
- Quanzheng Sheng, The University of Adelaide, Australia
- Massimo Tivoli, University of L'Aquila, Italy
- Gianluigi Zavattaro, University of Bologna, Italy

If you have further queries please email to the workshop chairs on:
was4fi@lcc.uma.es