



# ICSOC - ServiceWave 2009

International  
Conference on  
Service Oriented  
Computing

Joint ICSOC-ServiceWave 2009  
23<sup>rd</sup>-27<sup>th</sup> November 2009  
Stockholm, Sweden

A world-leading forum  
A unique opportunity

for academic researchers and industry practitioners  
to report on groundbreaking research  
to present industrial trends  
on service oriented computing

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## FOREWORD

The development of computing and resource sharing as we have known them until recently is about to radically change course as its center of gravity is shifting with technologies, service architectures allowing for applications to migrate to the cloud. This shift from Web 2.0 to Web 3.0 will give rise to an Internet of services of unprecedented scope and scale. We are now entering a new phase of ICT driven innovation and growth based on the Internet of Services which more and more will be accessible through what could be called the Mobile and Wireless Web. Already today applications of wireless technology are a major driver of economic value in the EU economy. These are estimated at 250 bn€ or 2-3% of GDP and rising. In the coming three years it is expected that close to 7 billion users or the entire planet's population will have use of a mobile handset. This is an unprecedented technological development exceeding the diffusion rates of technologies such as television or even pen and paper not only in terms of penetration and use but in its speed of take-up. We should expect an explosion of new applications with the potential to radically change the way in which we live and work. Examples are easy to cite: industrial and commercial applications in the supply chain, nomadic services for mobile workers, remote environmental monitoring or disaster and security systems that save lives by putting essential information into the hands of first responders, health and education services.

In such a remodelled world, new alliances will be created, new stakeholders will emerge, new modes of interaction will filter through into business practices, and new business models will proliferate. The Internet itself will no longer be a network of networks simply connecting computers and servers to become an Internet that connects "things" together: communicating devices by the billions, cars, machines of all sorts, household appliances, energy meters, windows, lights, etc. Around this new Internet will be borne a new economy of WEB based services and applications.

There are two great implications of this new "Internet of Services and Internet of Things":

First, this new world wide web of "things that think" will create a sensory network that will allow a leap forward in the human knowledge about the world we live in. It will lend itself to all sorts of new applications such as energy efficiency, health and welfare services, efficient transport and so on. If we do this well there will be a massive improvement in our quality of life and sustainability, not just because of the services, not just because of the competitive advantage of being an earlier mover, but because European values of openness and democracy will define the form that the Internet of Things takes.

Second we must liberate the economic potential of the single market that is still locked up in fragmented national markets. In particular we must now strengthen the real economy by stimulating solid and sustainable business growth in high value goods and services that respond to real market needs. From the current period of uncertainty and as inevitable structural changes emerge it is essential to look for the growth opportunities in tomorrow's world. The industrial and research community gathered around the NESSI technological platform, has certainly the talent and the capability to shape the future. All it takes is the ambi-



Dr. Joao Schwarz da Silva

tion to overcome fragmented markets and the will to build on our strengths by creating open single markets for innovative goods and services and by going for innovation and change. Remember that at 32% of global ICT demand, Europe is also the world's largest ICT market.

In creating the conditions that will allow Europe to benefit from the emerging economic opportunities, we must make sure that the Future Internet remains open. The key economic characteristic of the current internet has been that it has created an unprecedentedly open platform for innovation and development of new services. We must keep this characteristic of openness by ensuring that open standards and eventually open-source software are the core of our actions. While the financial health of many companies world-wide is still based on proprietary models and gatekeeper business models, the world ahead of us

will call for models whose economic basis offers a greater degree of liberty to the consumer or the enterprise.

As the Future Internet unfolds before us, the need will arise to move towards smarter and greener infrastructures. This is a big challenge, but also a great opportunity, because it will amplify the reach of the Internet and ETPs to novel usages and industrial sectors. As the NESSI community is well aware, some four years ago a very significant effort was initiated by the European Commission in the domain of the Future Internet, to leverage the scientific excellence and the industrial know-how of the European stakeholders.

Time has now come to go one step beyond what we have achieved so far. The intention is to closely couple our Future Internet technology research and development with applications of high societal value such as health, urban mobility, energy grids or smart cities. In doing so, we intend to provide an early "Internet response" to the many societal challenges with which we are confronted today. To deliver on this ambitious goal we propose to set in motion, by end of 2010, a Public Private Partnership on Future Internet, as a complement to our longer term research and development activities within the FP7 ICT Work Programme. This process has been formally announced on the 28th of October 2009 through a Communication of the Commission<sup>1</sup> and our intention is to dedicate 300 M€ to this PPP over the last 3 years of the current Framework programme. NESSI and the research community of Service Wave would be well advised to carefully consider how best to contribute to the activities of this new European initiative. It is up to you to shape the future, do not wait for others to do it on your behalf.

By the time you will read these lines, I will no longer be an official of the European Commission. I remain however a firm believer in a Europe, where you, members of its industrial and scientific community, will always be able to raise to the challenge of the future.

Dr. Joao Schwarz da Silva  
Ex-Director Converged Networks and Services, DG-INFOS, European Commission

1. <http://europa.eu/rapid/pressReleasesAction.do?reference=IP/09/1596&format=HTML&aged=0&language=EN&guiLanguage=en>  
[http://ec.europa.eu/information\\_society/activities/foi/library/communication\\_en.pdf](http://ec.europa.eu/information_society/activities/foi/library/communication_en.pdf)

We would like to welcome you to the ICSOC-ServiceWave 2009 conference by reflecting on the following question: what does it mean when two service oriented conferences, ICSOC, in its seventh edition, and ServiceWave, in its second edition, join forces?

To us, it represents the growing need for all stakeholders in this field to work closer together, in a context where services are increasingly becoming THE access channel to information. Today, the Future Internet is being elaborated, building on unprecedented levels of convergence between things, networks and data, faced with prospects of trillions of “intelligent” devices getting online. But beyond the need to ensure that the infrastructure can cope with the augmented capacity needs, there is another major issue: how will we provide users, whether citizens, businesses or public administrations with the appropriate means to access information, to interact with objects and to communicate across the world? How will we achieve the balance between wide access and security, between openness and privacy?

Through services, which need to be easy to detect, straightforward to use, secure in protecting content owners legitimate intellectual property rights while also providing users with the appropriate level of access, safe in ensuring that users’ privacy is not endangered by online activities etc.

The academic and industrial worlds hold a great responsibility in working together to ensure that the on-going Future Internet revolution benefits from the latest advances in services. Services will unleash the power of the Future Internet, services constitute the cornerstones of this revolution.

ICSOC-ServiceWave 2009 continues the tradition of its predecessors to foster the creation of cross-community excellence by gathering industrial and academic experts from various disciplines, such as business process management, distributed systems, computer networks, wireless & mobile communication networks, grid computing, networking, service science and software engineering.

Preparing this conference was ambitious – uniting academia and industry to this level of collaboration is both exciting and challenging. The programme we have assembled represents our initial aim, the intermingled visions and results from all over the world, from different communities and from different points of view. The programme has been organized in different tracks: Future Internet, Research, Demonstration, Panels and Workshops.

We have tried to create an attractive mix of scientific



**Fernando Fournon González-Barcia**  
Executive President  
Telefónica I+D, Spain  
ICSOC-ServiceWave co-chair

papers and user oriented demonstrations, we have incorporated plenary panels to debate hot topics such as the wave of cloud computing, the role of architectures and the convergence of services, content and things, and we have included presentations to present the evolution of the Future Internet Private-Public Partnership and the recent communication of the European Commission.

This conference would not have taken place without the generous support from our sponsors and we are very grateful for their contributions. We would also like to thank all the people behind this conference for their commitment to making this conference a success. In particular, the NESSI team, our local host KTH and finally the City of Stockholm for hosting the Conference Reception in the City Hall, famous for the Nobel prize award dinners.

Enjoy ICSOC-ServiceWave 2009!



**Pr. Gunnar Landgren**  
Vice President  
KTH, Sweden  
ICSOC-ServiceWave co-chair



**Pr. Mohand-Said Hacid**  
University of Lyon, France  
ICSOC-ServiceWave co-chair

# CONTENT

**Organizers** ..... 5

**Sponsors** ..... 10

**Programme**

**Schedule** ..... 13

**Industrial Programme** ..... 18

**Demonstrations** ..... 19

**Scientific Track** ..... 23

**Workshops** ..... 27

**PhD Symposium** ..... 30

**Collaborative Meeting** ..... 30

**NESSI National Initiatives** ..... 31

**NESSI General Assembly** ..... 31

**Speakers and Panel chairs** ..... 32

**Committees** ..... 35

**Attendees**

**By affiliation** ..... 37

**By alphabetical order** ..... 40

**Social Events**

**Reception** ..... 42

**Gala Dinner** ..... 42

**Practical Information** ..... 43





Services remove barriers between disconnected worlds, allowing the adhoc and dynamic elaboration of novel applications. Services remove the need to interconnect large databases by encapsulating the information and allowing controlled access through specific functionalities. Services ease the management of privacy by managing the channels to information.

In the domain of health, services foster the exchange of personal data to accompany the increasing mobility of citizens across Europe. In transport, services open up the connectivity between logistics, supply chains and inter modality – paving the way to worldwide traceability without the need to negotiate full scale interoperability between IT providers and systems. In education, services open up the world of teaching to pupils across the globe – effectively desynchronising the action of teaching from that of learning. In public administrations, services contribute to the Single Europe for Citizens.

In 2005, the corporations launching NESSI – the Networked European Software and Services Initiative European Technology Platform - defined their common vision: why and how they intended to work together to enable services to become accessible everywhere, open to all, trusted by nature and reliable by design. The NESSI founders recognized the need and mutual interest to join forces to ensure that services would, in the future, rely on a platform that fostered fast deployment, worldwide delivery and ubiquitous availability.

Today, NESSI unites over 450 organisations from industry and academia. Over the last years, it has focused its efforts on elaborating NEXOF, the NESSI Open Service Framework, designed to enable the Future Internet of Services.

ICSOC-ServiceWave 2009 is a major opportunity to advance our vision of the Future Internet, in common with ETPs eMobility, NEM, EPoS and ISI and with all the involved stakeholders.

**Frédéric Gittler**, HP Labs  
NESSI Steering Committee Chairman



The inter-platform view of the Future Internet is that it will be built on the four pillars of the Internet of People, the Internet of Content, the Internet of Things and the Internet of Services.

All the pillars stand on the base of the “Network Infrastructure”. Developing the Future Internet requires that both the network, services and content perspectives are developed in parallel. In order to support the pillars, many innovations will be needed at the level of the network infrastructure and eMobility aims to drive the converged fixed and mobile network aspects of the Future Internet development as it’s contribution to the joint platforms efforts on Future Internet. In this context, ICSOC-ServiceWave makes a valuable contribution to the development of Future Internet by bringing together the European community of researchers to develop the Internet of Services perspective. eMobility looks forward to continued collaboration and achievement in this context in future years!

**Dr. Fiona Williams**,  
Chair of the eMobility European Technology  
Platform Steering Board  
[www.emobility.eu.org](http://www.emobility.eu.org)



The European Technology Platform where New Media Content and Networks meet.

The NEM Initiative aims at building sustainable European leadership in content production and networking technologies. Its objective is to promote a consistent European approach to the convergence of media and telecommunications towards a Future Media Internet that will enhance the lives of European citizens through a richer media experience. The NEM constituency includes all major European organizations working in the networked and electronic media area which share a common vision and have produced a Strategic Research Agenda (SRA). NEM represents the convergence of existing and new technologies, including broadband, mobile and new media across all ICT sectors, to create a new and exciting era of advanced personalized services. The NEM Initiative and its members are supporting the ICSOC-ServiceWave 2009 by making significant contributions to its major topic “The Future of the Internet of Services” as part of NEM’s main mission “Towards the Future Media Internet”.

**Jean-Dominique Meunier**  
NEM Executive Director  
[www.nem-initiative.org](http://www.nem-initiative.org)

## EUROPEAN NETWORKS OF EXCELLENCE AND PROJECTS



The Integral Satcom Initiative

ISI (Integral Satcom Initiative) is the European Technology Platform on Satellite Communications, whose membership embraces all relevant and interested private and public stakeholders from Satellite Communications and Space sector.

The ISI European Technology Platform brings together for the first time in a unified, industry-led body all research, technology and innovation aspects related to satellite communications, including mobile, broadband, and broadcasting applications.

ISI's purpose is to foster and develop the entire industrial sector, maximize the value of European research and technology development, and contribute to European Union (EU) and European Space Agency (ESA) policies.

Currently ISI is involved in the implementation of its SRA through various initiatives, such as mainly ISICOM (Integrated Space Infrastructure for global COMmunications) and the Future Internet inter-ETPs initiatives.

### Vincenzo Fogliati

ISI Chairman

[www.isi-initiative.org](http://www.isi-initiative.org)



## EPoSS

European Technology Platform  
on Smart Systems Integration

The key heading for the enhancement of product capabilities and services in microsystems and related advanced technologies in Europe is Smart Systems Integration that will open the way towards multi-dimensional, context-aware, and smart environments.

In this light a group of major industrial companies based in Europe set-up EPoSS, the European Technology Platform on Smart Systems Integration, which was launched in July 2006. The research priorities of EPoSS were defined while establishing the Strategic Research Agenda.

EPoSS is a major, transnational, pan-European, mission-oriented initiative aiming at strengthening Europe's capacity to organize and to deliver innovation in the area of smart systems technologies and integration. The EPoSS working group "Internet of Things (IoT)" focuses on the "the network formed by things/objects having identities, able to sense or actuate and operating in smart spaces using intelligent interfaces to connect and communicate with users, social and environmental contexts". EPoSS, in concert with other ETPs is striving to tackle the Future Internet challenge to establish Europe's lead in this highly competitive area.

Contact:

Dr. Sebastian Lange

[www.smart-systems-integration.org](http://www.smart-systems-integration.org)

## INES

Iniciativa Española de  
Software y Servicios

INES - Iniciativa Española en Software – is the Spanish Technological Platform on Software and Services. It officially started in December 2005, and since then it has established itself as a vibrant R+D community.

Its success is visible through the number of members (over 200, currently, including around 30 universities and 50 research and innovation centers), its booming plenary meetings (around 180 attendees in its last edition in Málaga), and the projects, both Spanish and international, incubated in INES.

INES perceives ServiceWave 2009 as an event of the utmost importance, not only because of its international dimension, but also because it delivers a clear message conveying the relevance of the area of Software and Services in the current ICT landscape to the Spanish authorities, industry, and academia – and forwarding this message has always been one of the main goals of INES. Moreover, we are confident that the ServiceWave conferences series will have a lasting impact both in academia and industry, and will undoubtedly open the way to the establishment of Software & Services as one of the key technological ingredients of the future.

The strong links between INES and NESSI, together with the weight of academia in INES, only makes our perception in this regard even stronger.

### Santiago Ristol Jorba

Atos Origin - INES President

[www.ines.org.es](http://www.ines.org.es)

### Manuel Carro

UPM - INES Vice-presidency for  
Communication



With close to 100 partners coming from top industrial and academic research, SMEs and R&D centres across Europe, the BEinGRID project has identified clear business needs to be met by Grid technologies.

25 pilots covering industrial sectors such as finance, architecture, advanced manufacturing, agriculture and health, have focused on solving real problems using different Grid technology solutions for collaboration, performance and enabling new services.

Through the deployment of these pilots in the industry, the largest ICT integrated project financed by the European Commission is highlighting Europe's priority for ICT research development in order to transform research successes into business opportunities to bolster the European economy.

"I am very proud that BEinGRID has produced such outstanding results," said BEinGRID Project Coordinator, Santi Ristol from Atos Origin. "Our many innovative end users, around whom we have developed these solutions, illustrate that Grid is business-ready".

Further information on BEinGRID can be found at [www.beingrid.eu](http://www.beingrid.eu).



CoreGRID is a European research network that is developing the foundations, software infrastructures and applications for largescale, distributed Grid and P2P technologies.

CoreGRID started its activities in September 2004, for a duration of four years, with an ambitious goal: to build a sustainable research laboratory gathering the best European experts, with a view to address the numerous research challenges posed by large scale computing infrastructures such as service oriented infrastructures, P2P systems and Grids.

After four years of existence, CoreGRID has indeed carved out a place for itself in the international Grid research arena. With 330 researchers from 46 European research institutions, it has become one of the largest research centres in Grid computing, encompassing a vast range of research topics such as knowledge and data management, programming models, middleware, resource management and scheduling, workflow, service infrastructures and peer-to-peer systems, just to cite a few. It has now reached its ideal objective: to become the European Grid beacon. CoreGRID is now entering the last phase: its sustainability since the EU-funding support ceased last August. The network has evolved into an ERCIM Working Group to let researchers continue to work together and address new research challenges under this new status, especially concentrating on issues related to service infrastructures. This is why CoreGRID participates actively to ICSOC-ServiceWave 2009.

[www.coregrid.net](http://www.coregrid.net)



NESSI-2010 is a support action whose ambition is to sustain the momentum of the NESSI European Technology Platform dedicated to software and services, a community which, today, represents 450 members, a 1.7 Million strong workforce and 490 B€ annual revenues. It is funded through the FP7 European Research programme and focuses on five specific directions:

- Supporting NESSI Strategy formulation and implementation
- Supporting the SME Community effort
- Supporting the interlinking activities and the NESSI National Initiatives Network
- Supporting the continued awareness and participation building activity
- Supporting the NESSI Office

The communication activities including the publication of the quarterly NESSI newsletter, available both online and printed, and the organization of events including ServiceWave conference series, the NESSI General Assembly and the new NESSI Convention whose first edition will take place in April 2010 in Valencia, Spain.

[www.nessi-europe.eu](http://www.nessi-europe.eu)



The EIFFEL Support Action: Laying the foundation for Future Networked Society. The widespread adoption of Internet technology has had one of the most profound effects on the nature of society ever witnessed.

It has changed the way we do business, the way we obtain information, the ways in which we communicate, and many other facets of life. However effective it has been to date, the Internet was not designed for this purpose, and it is now time to consider how best to change it to support the Future Networked Society.

The EIFFEL Support Action is mobilising European and international researchers to discuss, debate, and provide guidance on the changes needed in the Internet, and the R&D that must be undertaken to realise this vision of a truly networked society.

To accomplish this, EIFFEL is running an international thinktank and pan-European discussion forum that aims to facilitate conflict-free, sci-entific discussion on the future of the Internet with input from experts and visionary researchers as well as those concerned with governance and with delivery.

In this context, EIFFEL supports the ICSOC-ServiceWave 2009 conference as a major milestone bringing together the different stakeholders involved in building the Future Internet – from ETPs to Networks of Excellence, from industry to academia, from public bodies to private users.

**Petri Mähönen**  
On behalf of EIFFEL SSA  
[www.fp7-eiffel.eu](http://www.fp7-eiffel.eu)



Recent and continuous advances in mobile communications and embedded solutions are transforming the environment, at home, at work and on the go. But how will these advances evolve into a continuum of services? How will service technologies benefit citizens? How will services shield users from the complexity of software, networks and computers? How will services contribute to the Future Internet?

This is what the NESSI Open Service Framework (NEXOF) is about – creating the operating environment for services and service applications.

The different NEXOF elements include

- ➔ the NEXOF Reference Architecture which describes the concepts and elements which together define and build NEXOF
- ➔ the NEXOF reference implementation, an open-source environment designed to validate future NEXOF implementations whether open-source or proprietary
- ➔ the NEXOF Roadmap describing the path from architecture to fully operational instances of the NESSI Open Service Framework as well as new and emerging research directions in the field.

To leverage from the large amount of research and researchers NEXOF is built through an Open Architecture Specification process, a contribution mechanism open to all and designed to preserve the integration, coherence and consistence of the outcome.

The process is organised through open calls that address specific building blocks of NEXOF. Today, 11 research projects contribute to NEXOF, and, through the calls, contributions from all over the world have enriched the elaboration of NEXOF.

While NEXOF has a clear technological value, it is also a major convergence and collaboration initiative. NEXOF is a platform whose *raison d'être* is to be built based on consensus for its most structural elements, while allowing the integration of “best-of-breed” in multiple compatible approaches and implementations.

ICSOC-ServiceWave 2009 constitutes a major opportunity to enrich the NEXOF process and enlarge the contribution base.

**Stefano De Panfilis**, R&D Labs Director,  
Engineering Ingegneria Informatica  
NESSI Technical Director



S-Cube, the Software Services and Systems Network, will establish an integrated, multidisciplinary, vibrant research community which will enable Europe to lead the software-services revolution, thereby helping to shape the software-service based Internet which is the backbone of our future interactive society.

An integration of research expertise and an intense collaboration of researchers in the field of software services and systems are needed to integrate different research communities, which currently concentrate mostly on its own specific techniques, mechanisms and methodologies and to master future challenges in the service domain. These future challenges include building service-based systems in such a way that they can selfadapt while guaranteeing the expected level of service quality. S-Cube is expected to contribute to re-aligning, re-shaping and integrating research agendas of key European players from diverse research areas. By synthesizing and integrating diversified knowledge, a long-lasting foundation for steering research and for achieving innovation at the highest level will be achieved.

As S-Cube aims to integrate ideas from different research areas, the ServiceWave conference series provides the platform with an opportunity to disseminate and discuss innovative and integrated research ideas in order to bridge the gap between the grid computing, software engineering, business process management and service-oriented computing research communities.

**Klaus Pohl**  
S-Cube Coordinator  
[www.s-cube-network.eu](http://www.s-cube-network.eu)



The European Institute in Services Science (ERISS) is hosted at Tilburg University (Netherlands). ERISS is a multi-disciplinary, internationally renowned research and development institute that is committed to pooling, coordinating and consolidating research activities in service science, management and engineering (SSME) across Europe.

ERISS undertakes research in service science, particularly in the area of globally integrated networks of services (or, simply, service networks). Together these service networks will form an "Internet of Services" and become the future backbone of our interactive society. The focus of research at ERISS is the real-world challenges facing service networks that demand the use of a wide range of multiple conceptual, methodological and substantive approaches. To achieve multidisciplinary excellence

in SSME, ERISS works closely with other research groups, such as world-class economists and a business research institute.

Members of ERISS have extensive experience of participation on international collaborations. Research work at ERISS is funded by several organisations, including the EU FP-7 programme, The Netherlands Organization for Scientific Research (NWO), the Australian Research Council (ARC) and other organizations throughout the world. ERISS is currently the scientific director of the EC's FP7 Network of Excellence in Software Services & Systems (S-Cube) and participates in other FP-7 projects.

Also, ERISS was the leader of an international consortium awarded a five-year Erasmus Mundus grant from the EC to coordinate the only worldwide International Masters in Service Engineering.

**Prof. Mike Papazoglou**

Eriss Scientific Director

[www.tilburguniversity.nl/eriss/](http://www.tilburguniversity.nl/eriss/)



The Scientific Academy for Service Technology e.V. (ServTech) is a non-profit association of leading experts from industry and academia in Europe and the United States devoted to support innovation and progress in Service-Oriented Computing (SOC).

The purpose of the association is the promotion of science, research, development, application and qualification in the area of software system integration and service-oriented software engineering. The society's activities include:

- application oriented scientific research,
- development, planning and staging of scientific events like conferences and workshops,
- on-demand vocational education and training in software service engineering, and consulting.

ServTech pursues exclusively and directly non-profit making aims including:

- promotion of science, research, development, application and qualification in the area of software system integration and service-oriented software engineering
- application oriented scientific research and development and the planning and staging of events and training courses in the field of service and component-based software engineering
- integration of heterogeneous business applications.

Results of ServTech's activities are to benefit the general good; In pursuit of its goals, the association collaborates with different universities, companies, authorities and the appropriate organizations.

[www.servicetechnology.eu](http://www.servicetechnology.eu)



KTH was founded in 1827 and accounts for one-third of Sweden's technical research and engineering education capacity at university level.

There are a total of just over 12,000 full-year equivalent undergraduate students, more than 1,400 active postgraduate students and 2,800 full time equivalent employees.

Education and research cover a broad spectrum – from natural sciences to all the branches of engineering as well as architecture, industrial engineering and management, urban planning, work science and environmental engineering. In addition to the research carried out by KTH's Schools, a large number of both national and local Competence Centres are located at KTH.

The School of Information and Communication Technology is located on the Kista campus, north of Stockholm. In Kista, KTH collaborates with Stockholm University, various research institutes and industry within the framework of the IT University – Sweden's largest resource in information technology.

[www.kth.se](http://www.kth.se)

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Ericsson has been on the telecommunications market for more than a hundred years and today supports networks that together serve more than one billion subscribers.

Ericsson provides communication networks, global telecom services and multimedia solutions.

We make it easier for people around the globe to communicate by helping operators to bring new services to their customers and evolving and improving the networks that make these services possible.

Ericsson is a world-leading provider of telecommunications equipment and related services to mobile and fixed network operators globally. Over 1,000 networks in more than 175 countries utilize our network equipment. Ericsson delivers a new radio base station every 90 seconds. We are one of the few companies worldwide that can offer end-to-end solutions for all major mobile communication standards.

The ST-Ericsson joint venture provides consumers with feature-rich personal mobile devices. ST-Ericsson is a top 3 global supplier and one of the few mobile-semiconductor and platform companies with the critical mass in sales, product range, IP portfolio, R&D capabilities and customer base.

Through our Sony Ericsson Mobile Communications joint venture we offer a range of mobile devices, including those supporting multimedia applications and other services allowing richer communication

We invest heavily in R&D and actively drive and promote open standards and systems. Also reflecting our ongoing commitment to technological leadership, we have one of the industry's most comprehensive intellectual property portfolio containing approximately 24,000 patents.

Our origins date back to 1876. The parent company is Telefonaktiebolaget LM Ericsson. Our headquarters are located, and the Board of Directors is seated, in Stockholm, Sweden.

### Our vision is to be the prime driver in an all communicating world.

An all-communicating world means a world in which all people can use voice, data, images and video to share ideas and information wherever and whenever they want. We aim to make people's lives easier and richer, provide affordable Communication for all and enable new ways to do business.

With the Group vision "to be the prime driver in an all-communicating world" in mind, Ericsson will develop, produce, and offer products and services with excellent environmental performance, enabling our customers to minimize their environmental impact.

### Open Innovation - [ericsson.labs.com](http://ericsson.labs.com)

Ericsson Labs, provided by Ericsson, is a new portal on the web that contains beta enablers and applications, and provides an open environment for sharing information with application developers, technology partners and consumers. Ericsson Labs simplifies the creation of applications for experimental developers to reach operators, simplifies the implementation of basic telecom functions and enables access to advanced functionality. A server infrastructure facilitates live testing. Ericsson is dedicated to contributing to all major standardization organizations working for open standards.

### Ericsson Application Award

Inviting over 25000 thousands students at 100 universities the Ericsson Application award launched in Nov 2009. Students at the local university can win 45.000 euros teaming up with small and medium sized enterprises to develop mobile applications! The Ericsson Labs enables simplified ways of developing smart applications for the phones based on functionality such as mobile maps, push functionality or streaming media. The final is in June 2010.



IT-Tude.com connects emerging ICT research with business solutions, and offers your organization the opportunity to use this new and dynamic online platform for your own outreach.

The website covers the newest and most promising technology and services: Cloud and Grid Computing, Virtualization, Software as a Service (SaaS) and more.

IT-Tude.com delivers:

- use-cases to relate to your business needs, especially for the SME
- neutral and dependable analysis to better advise you
- technology expertise to fulfill your IT side of operations
- emerging services and technologies to highlight future research
- and most of all: the link and online visibility that lets your organization jump onboard

As you submit content related to your organization's research or business focus, we offer you online visibility that can be updated as you see fit. It's this participation that makes IT-Tude.com distinct from the rest: we connect the content with those involved, providing further service in expanding your network while maintaining the site rich with content, both from our end and yours.

We'll be showing you more from our booth at ICSOC/ServiceWave'09, on hand all week, along with our demo on Wednesday evening. IT-Tude.com ([www.it-tude.com](http://www.it-tude.com)) is a joint venture by Atos Origin, CETIC, EPCC (University of Edinburgh) and the National Technical University of Athens; and was developed through the BEinGRID project. We look forward to connecting your organization.

## SIEMENS

Siemens AG (headquartered in Berlin and Munich) is a global powerhouse in electronics and electrical engineering, operating in the industry, energy and health-care sectors.

Siemens holds leading market positions in all its business areas. The company has around 430,000 employees (in continuing operations) working to develop and manufacture products, design and install complex systems and projects, and tailor a wide range of solutions for individual requirements. For over 160 years, Siemens has stood for technological excellence, innovation, quality, reliability and internationality. In fiscal 2008, Siemens had revenue of €77.3 billion and income from continuing operations of €5.9 billion (IFRS).

Innovation is Siemens' most important growth and productivity driver. In fiscal year 2008, the company invested €3.8 billion – 4.9 percent of its total revenue – in research and development to stay at the forefront of technological progress. Today the company employs some 32,300 researchers and developers worldwide who work on innovations that secure existing business and open up new markets. Many of them are software engineers or researchers with a strong expertise in software development. The degree of innovation and the market success is significantly driven by software being an inherent element of most of our products. This makes Siemens one of the world's largest software houses.

Collaborations are an indispensable means of developing strategically important technologies. By discussing, sharing and implementing ideas with scientists from outside the company, Siemens researchers keep abreast of the latest findings resulting from fundamental and applied research all over the world.

With around 3,000 employees worldwide and being responsible for more than 7 percent of Siemens' total R&D expenditures, Corporate Technology (CT) plays a key role in R&D at Siemens. With more than 55,000 active patents, Siemens' Corporate Technology Department is a world leader among technology company research networks and acts as a powerful innovation partner for all Siemens' business units. The organization provides expertise regarding strategically important areas to ensure the company's technological future, and to acquire patent rights that safeguard the company's business operations.

Exploiting service orientation is one of Siemens Corporate Technology's strategic goals. Siemens CT is founding partner of the European Technology Platform NESSI (Networked European Software and Services Initiative). Dr. Reinhold Achatz, Head of Siemens Corporate Research and Technologies, represents NESSI as chair of the board. As a participant in the FP7 project NEXOF-RA Siemens CT contributes to the NESSI Open Framework by its expertise in industrial systems. Siemens Focus areas are architectural patterns, virtualised infrastructures industrial use cases and standardization. In addition to that Siemens is a founding member of the European Future Internet Initiative which has been setup by sixteen major industrial European players in the ICT environment to shape the Future Internet activities in Europe together with the European Commission.

## THALES

### MEETING THE NEED FOR A SAFER WORLD

Thales is a global technology leader in the Aerospace, Space, Defence, Security and Transportation markets. The company offers an unparalleled capability to design, develop and deploy equipment, systems and services that meet the most complex security requirements. The group has an exceptional international footprint, with operations around the world working with customers as local partners.

Leader in integration of systems, Thales owns all the key enabling technologies and competencies required to ensure information and communication system security as well as digital identification, electronic physical security, surveillance and synthetic environments. The company's cutting-edge technology is supported by a solid engineering force that builds safety and security into mission critical systems and infrastructures at the design stage.

With 16,000 employees dedicated to the security activity worldwide, Thales offers an unrivalled solutions portfolio to maximise the effectiveness of security systems :

- ➔ Innovative solutions for intelligent ground transportation (main line rail, urban transport and road) : advanced signalling, integrated operation security solutions, fare collection systems.
- ➔ Protecting citizens : supervision and protection systems for large cities and critical infrastructure (airport, utilities, sensitive sites and events).
- ➔ Proven expertise in secured information systems : end-to-end security offering, from consulting, outsourcing, cyber defence, forensics.
- ➔ High fidelity simulation and modelling capability : 3D Synthetic visualisation of large urban areas, on a variety of platforms, for interactive real-time simulation.

#### Key figures:

- €2.4 billion in total (19% of the activity)
- 25,000 researchers in high-tech domains
- 300 inventions per year
- Over 15,000 patents
- More than 30 partnerships with public research universities and laboratories in Europe, the united States and Asia

[www.thalesgroup.com/security-services](http://www.thalesgroup.com/security-services)

## SPONSORS (GOLD)



The network of Orange Labs represents the France Telecom-Orange Group's global innovation network. It is made up of 5,000 employees on four continents. It reflects the Group's ambition to put innovation at the heart of its strategy, firmly focused on its clients.

R&D is the principal source of innovation for the Group, with more than 7,500 patents registered. Consisting of 3,600 researchers in 17 laboratories on four continents (8 in France and 9 in Europe, America, Africa and Asia). Its ambition is to supply the innovation pipeline for the next two years with strong value-added subjects, as well as to anticipate longer-term issues (5-6 years).

Each Orange Lab is integrated into its own regional ecosystem in order to anticipate technological advances and changes in uses around the world, delivering products and services that are easy to use at the right time and in the right country.

## SPONSORS

WE THANK ALL OUR SPONSORS:

### Platinum Sponsors



SIEMENS

THALES



### Gold Sponsor



### Silver Sponsors



\* All rooms are located in Electrum Conference Centre except when indicated otherwise. Turn to page 43 for maps.

Monday - November 23rd, 2009

Workshops: Registration open 08:30 am - 17:30

	Service Engineering Track	Business Models & Architectures Track	Service Quality and Service Level Agreement Track	Track - Business Experiences Track	Track - Technologies for Services
10:00-11:00	<b>WESOA'09</b> Fifth International Workshop on Engineering Service-Oriented Applications  Kista Science Tower Room SnowWhite	<b>TEAR-2009</b> The 4th Workshop on Trends in Enterprise Architecture Research  Room Klubbrum*	<b>NFPSLAM-SOC'09</b> Non Functional Properties and Service Level Agreement Management in Service Oriented Computing  Kista Science Tower Room Cinderella	<b>Industrial Experience for Service-Oriented Computing</b>  Room Tazetten*	
11:00 -11:30	Coffee Break				
11:30-13:30	<b>WESOA'09</b> Fifth International Workshop on Engineering Service-Oriented Applications  Kista Science Tower Room SnowWhite	<b>TEAR-2009</b> The 4th Workshop on Trends in Enterprise Architecture Research  Room Klubbrum*	<b>NFPSLAM-SOC'09</b> Non Functional Properties and Service Level Agreement Management in Service Oriented Computing  Kista Science Tower Room Cinderella	<b>Industrial Experience for Service-Oriented Computing</b>  Room Tazetten*	
13:30-14:30	Lunch				
14:30-16:00	<b>WESOA'09</b> Fifth International Workshop on Engineering Service-Oriented Applications  Kista Science Tower Room SnowWhite	<b>SG-PAW 2009</b> 1st International Workshop on SOA, Globalization, People, & Work  Room Klubbrum*	<b>NFPSLAM-SOC'09</b> Non Functional Properties and Service Level Agreement Management in Service Oriented Computing  Kista Science Tower Room Cinderella	<b>Common Capabilities for Service Oriented Infrastructures and Cloud Computing</b>  Room Tazetten*	<b>Identity Management in Service Oriented Architectures</b>  KTH Campus Room 539
16:00 -16:30	Coffee Break				
16:30-18:00	<b>WESOA'09:</b> Fifth International Workshop on Engineering Service-Oriented Applications  Kista Science Tower Room SnowWhite	<b>SG-PAW 2009</b> 1st International Workshop on SOA, Globalization, People, & Work  Room Klubbrum*	<b>MONA+</b> 2nd International Workshop on Service Monitoring, Adaptation and Beyond  Kista Science Tower Room Cinderella	<b>Common Capabilities for Service Oriented Infrastructures and Cloud Computing</b>  Room Tazetten*	<b>Identity Management in Service Oriented Architectures</b>

Tuesday - November 24th, 2009 - WORKSHOPS

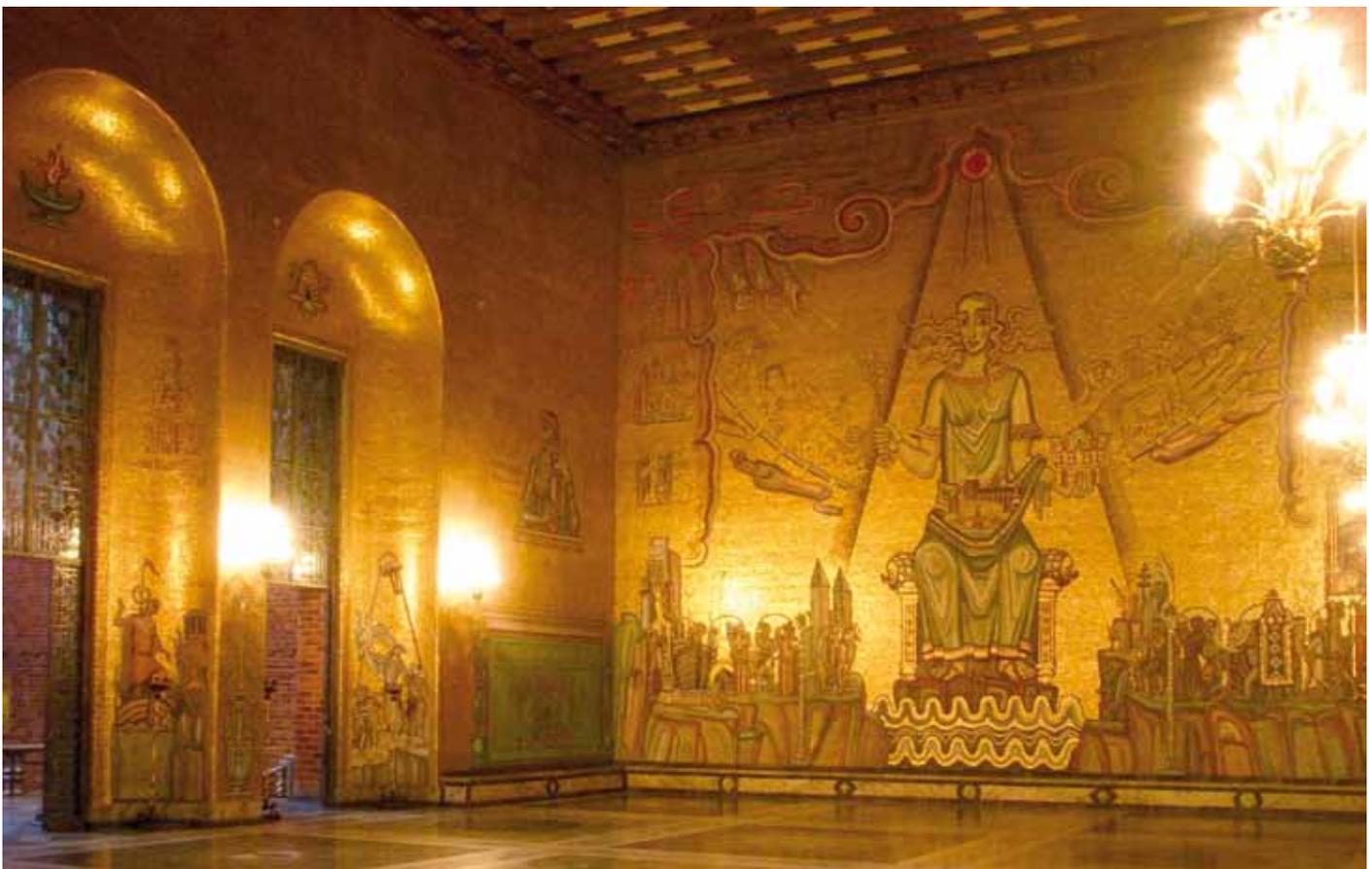
Workshops: Registration open 09:00 am - 17:30

09:00-11:00			<b>MONA+ (continued)</b> 2nd International Workshop on Service Monitoring, Adaptation and Beyond		
09:30-11:00	<b>International Workshop on User-generated Services</b>  Room Knuth*	<b>SOC-LOG:</b> 1st International Workshop on Service Oriented Computing in Logistics  KTH Campus Room 539		<b>Business Opportunities and Challenges for Grid and Cloud Computing</b>  Group Room 1*	<b>Event-Driven Business Process Management</b>  Group Room 2*
11:00 -11:30	Coffee Break				
11:30-13:30	<b>International Workshop on User-generated Services</b>  Room Knuth*	<b>SOC-LOG:</b> 1st International Workshop on Service Oriented Computing in Logistics  KTH Campus Room 539	<b>MONA+</b> 2nd International Workshop on Service Monitoring, Adaptation and Beyond  KTH Campus Room 432	<b>Business Opportunities and Challenges for Grid and Cloud Computing</b>  Group Room 1*	<b>Event-Driven Business Process Management</b>  Group Room 2*
13:30-14:30	Lunch				

# PROGRAMME

Tuesday - November 24th, 2009 - Continued

15:00	<b>Official Opening of ICSOC-ServiceWave 2009</b>	
15:00-16:00	<b>Opening Session</b>	
	Welcome to ICSOC-ServiceWave 2009	<b>Dr. Gunnar Landgren</b> , Vice-President, KTH
	Software Related Services: a Key Element in the Future Internet	<b>Dr. Reinhold Achatz</b> , CTO, Siemens
	Software Engineering Challenges for Service-Oriented Computing	<b>Pr. Bashar Nuseibeh</b> , Chief Scientist, Lero
	Room Electrumsalen	
16:00-16:30	Coffee Break	
16:30-18:30	<b>"Services in the Future Internet"</b>	
	Research on Future Internet - the way forward	<b>Mr. Mario Campolargo</b> , EU Director "Emerging Technologies and Infrastructures"
	Ambiant Sweden - an Introduction	<b>Dr. Staffan Truvé</b> , CEO Sics, Chairman of the Swedish Foresight Study "Ambient Sweden"
	The European Internet - Emerging Markets and Services	<b>David Kennedy</b> , Chairman of the European Future Internet Initiative
	Questions & Answers	
	Room Electrumsalen	
18:30	Bus transportation from Conference Centre to Welcome Reception	
19:00	<b>Welcome Reception</b> (see details on page 42)	hosted by <b>the Stockholm Mayor</b> at the Stockholm City Hall
21:00	Bus transportation from Stockholm City Hall to Conference Centre	



Golden Hall

Wednesday - November 25th, 2009

Registration open 09:00 am - 17:30

09:00-10:00	<b>Keynote "How to make money out of cloud computing?" by Joan Masso, CEO Gridsystems</b>			
	Room Electrumsalen			
10:00-10:30	Coffee Break			
10:30-12:00	Research papers - 01	Research papers - 02		Demonstrations
	<b>Composition</b>	<b>Discovery</b>		<b>Demonstrations presentation</b>
	Room Electrumsalen	Room Filen		Room Arkivet
				Internal meeting
				by invitation only
				Room Utvägen
12:00-13:30	Lunch			
13:30-15:00	<b>Panel "One year of Future Internet: is cloud computing the new wave?"</b>			Internal meeting
	Chaired by <b>Santi Ristol</b> , Atos Origin Innovation, INES Chairman			by invitation only
	Panellists <b>Mike Boniface</b> , IT Innovation <b>Yaron Wolfsthal</b> , IBM <b>Theo Dimitrakos</b> , BT <b>Tarry Singh</b> , Atos Origin / Avastu <b>John Barr</b> , The 451 Group <b>Joan Masso</b> , Grid Systems CEO			
	Room Electrumsalen			
15:00-16:00	Research papers - 03	Research papers - 04		Demonstrations
	<b>Design principles</b>	<b>Customization and adaptation</b>		<b>Demonstrations presentation</b>
	Room Electrumsalen	Room Filen		Room Arkivet
				Room Utvägen
16:30-17:00	Coffee Break			
17:00-18:00	Research papers - 05	Research papers - 06	Industry Papers - 15	Demonstrations
	<b>Negotiation, agreement and compliance</b> Session 05 ends at 19:00	<b>Selection</b>	Session 15 ends at 19:00	<b>Demonstrations presentation</b>
	Room Vinterträdgården	Room Filen	Room C1	Room Arkivet
				Internal meeting
				by invitation only
				Room Utvägen
19:00-21:00	<b>Demonstration evening</b>			
	20 demonstrations Sandwiches & drinks			
	Room Electrumsalen			

# PROGRAMME

## Thursday - November 26th, 2009

Registration open 09:00 am - 14:00

09:00-10:00	<b>Keynote - Interconnecting smart objects with IP</b> by <b>Dr.Adam Dunkels</b> - Networked Embedded Systems Group, SICS				
	Room Electrumsalen				
10:00-10:30	Coffee Break				
10:30-12:00	<b>Research papers - 07</b>	<b>Research papers - 08</b>	<b>NESSI National Initiatives</b>	<b>Collaboration meeting</b>	<b>PhD Symposium</b>
	<b>Platforms and infrastructures</b>	<b>Short papers I</b>	<b>Meeting</b>	<b>Model Driven Approach for Complex Service Architectures and Engineering</b>	
	Room Electrumsalen	Room Filen	Room C1	Room Arkivet	Room Utvägen
12:00-13:30	Lunch				
13:30-15:00	<b>Panel "Services, Content and Things : how do they fit together?"</b> Chaired by <b>Sergio Gusmeroli</b> , Txt			<b>Collaboration meeting</b>	<b>PhD Symposium</b>
	Panellists <b>Patrick Guillemain</b> , ETSI <b>Ovidiu Vermesan</b> , Sintef		<b>Frédéric Gittler</b> , HP Labs <b>Man Sze Li</b> , IC Focus Ltd <b>Adam Dunkels</b> , SICS	<b>Model Driven Approach for Complex Service Architectures and Engineering</b>	
	Room Electrumsalen				
15:00-16:30	<b>Research papers - 09</b>	<b>Research papers - 10</b>	<b>NESSI General Assembly</b>		
	<b>Security</b>	<b>Short papers II</b>			
	Room Electrumsalen	Room Filen	Room C1	Room Arkivet	Room Utvägen
16:30-17:00	Coffee Break				
17:00-18:00	<b>Research papers - 11</b>	<b>Research papers - 12</b>	<b>NESSI General Assembly</b>	<b>Collaboration meeting</b>	<b>PhD Symposium</b>
	<b>Modeling and Design</b>	<b>Validation and Verification</b>		<b>Model Driven Approach for Complex Service Architectures and Engineering</b>	
	Room Electrumsalen	Room Filen	Room C1	Room Arkivet	Room Utvägen
18:30	Bus transportation from Conference Centre to Vasa Museum				
19:00	<b>Vasa Museum</b>				
	Private visit				
20:00	<b>Gala Dinner</b>				
	Vasa Museum				
23:00	Bus transportation from Vasa Museum to Conference Centre				

# PROGRAMME

Friday - November 27th, 2009

09:00-10:30	Research papers - 13	Research papers - 14
	<b>Reputation and ranking</b> Room Electrumsalen	<b>Service Management</b> Room Filen
10:30-11:00	Coffee Break	
11:00-12:30	<b>Panel "Architecture - Enablers or Barriers to the Future Internet?" - Chaired by Stefano De Panfilis, Engineering, Technical Director, NESSI</b>	
	Panellists  <b>Nuria De Lama</b> , Atos Origin, SOA4ALL <b>Tonny Velin</b> , Answare <b>Martin Körling</b> , Ericsson	<b>Jan Camenisch</b> , IBM <b>Marco Pistore</b> , Fondazione Bruno Kessler
	Room Electrumsalen	
12:30-14:00	Lunch	
14:00-15:30	<b>Closing Ceremony</b>	
	Towards an open Mobile Internet	<b>"Martin Körling,</b> Ericsson Research Director, Service Layer Technologies"
	The sum is better than the parts : implementing an ETP research agenda	<b>"Frédéric Gittler,</b> HP Labs, NESSI SC Chairman"
	Room Electrumsalen	
15:30	End of ICSOC-ServiceWave 2009	

# INDUSTRIAL PROGRAMME

## Keynotes:

<b>Research on Future Internet - the way forward</b>	
Mr. Mario C ampolargo	24/11/2009
<b>Ambiant Sweden - an Introduction</b>	
Dr.Staffan Truvé	24/11/2009
<b>The European Internet - Emerging Markets and Services</b>	
David Kennedy	24/11/2009
<b>How to make money out of cloud computing</b>	
Mr. Joan Masso	25/11/2009
<b>Interconnecting smart objects with IP</b>	
Dr. Adam Dunkels	26/11/2009
<b>Towards an open Mobile Internet</b>	
Dr. Martin Körling	27/11/2009
<b>The sum is better than the parts : implementing an ETP research agenda</b>	
Mr. Frédéric Gittler	27/11/2009
<b>Panels:</b>	
<b>One year of future Internet – is cloud computing the new wave?</b>	25/11/2009
<b>Services, contents and things – how do they fit together</b>	26/11/2009
<b>Architectures – enablers or barriers to the Future Internet?</b>	27/11/2009

## Future Internet track - 24/11/2009

One year ago, the Future Internet track during ServiceWave 2008 highlighted that for the first time we could envisage a fully networked society but the challenge was how to realise this goal in an efficient and effective way. Since then, both the European Commission and the partners of European Technology Platforms have devoted many resources to refining not only the Future Internet vision and the need for convergence, but also how to optimise the way in which the resources involved could be motivated to work together in a European context.

A major step in the advancement of the European Future Internet position is shown in the recent communication issued by the European Commission<sup>1</sup>, on the topic of a private-public partnership on the Future Internet.

This step is in response to a call by industry through the new European Future Internet Initiative issued to Ms Reding in Prague in May 2009. ([www.future-internet.eu](http://www.future-internet.eu)). This initiative provides a framework for the industry to work together towards the elaboration of a new Future Internet private-public partnership in Europe.

ICSOC-ServiceWave 2009 provides a unique opportunity to discuss this new partnership for Europe with both the European Commission and the industry through the Future Internet Initiative. All parties involved in the discussion want to ensure that all relevant research communities share the ambitious goals of the PPP. ICSOC-ServiceWave 2009 is proud to welcome in the Future Internet session both the European Commission Director, Mr. Mario Campolargo and European Future Internet Initiative Chairman, Mr. David Kennedy. In the same session we will also have Dr. Staffan Truvé, chairman of the recently published comprehensive study on Ambient Sweden that shows how the convergence of the Future Internet impacts all domains, from services to networks, from humans to objects.

1. <http://europa.eu/rapid/pressReleasesAction.do?reference=IP/09/1596&format=HTML&aged=0&language=EN&guiLanguage=en> and [http://ec.europa.eu/information\\_society/activities/foi/library/foi-communication\\_en.pdf](http://ec.europa.eu/information_society/activities/foi/library/foi-communication_en.pdf)

## Panel: One year of Future Internet – is cloud computing the new wave? 25/11/2009

Chaired by **Santi Ristol**, Atos Origin

Panelists:	Joan Masso	Grid Systems CEO
	John Barr	The 451 Group
	Mike Boniface	IT Innovation
	Tarry Singh	Atos Origin, Avastu
	Theo Dimitrakos	BT
	Yaron Wolfsthal	IBM

This panel will focus on the role of cloud computing in the Future Internet, and on whether its emergence will evolve into the major, underlying infrastructure of the Future Internet or whether this is one component among others. With panellists closely involved in its evolution, both the services providers and the telecommunication operators points of view will be represented.

## Panel: Services, content and things – how do they fit together? 26/11/2009

Chaired by **Sergio Gusmeroli** Txt

Panelists	Adam Dunkels	SICS
	Frédéric Gittler	HP Labs
	Man Sze Li	IC Focus Ltd
	Ovidiu Vermesan	Sintef
	Patrick Guillemin	ETSI

While services already play a key role in ensuring controlled access to content, how will we cope with the increasingly tight coupling between things and content? Intelligent devices are becoming the norm in our everyday life, from cars to fridges, from mobile terminals to industrial robots. But this evolution will at the same time enable new modes of interactions that we have yet to discover and create links that we had not even dreamed of.

In this panel, panellists from services, things, content and telecommunication come together to discuss the evolution.

## Panel: Architectures – enablers or barriers for the Future Internet? 27/11/2009

Chaired by **Stefano De Panfilis**, Engineering Ingegneria Informatica SpA

Panelists	Jan Camenisch	IBM
	Martin Körling	Ericsson
	Nuria De Lama	Atos Origin, SOA4ALL
	Marco Pistore	Fondazione Bruno Kessler
	Tonny Velin	Answare

Building on its title, this panel will mostly address technological issues in building the Future Internet starting from the critical aspect of architectures. Issues such as which role the architectures will or should play, do we need one or more architectures, one or more Future Internet Systems, what should be in, what should be out, will Future Internet Systems be more complex than the current ones, and eventually what is the trade-off for its full exploitability will be debated.

The panellists will answer questions from the moderator and the attendees for a very interactive session!

The ICSOC-ServiceWave 2009 demonstration track comprises 20 demonstrations. The demonstrations list includes domain focused demonstrations in health, logistics, automotive as well as service oriented specific technologies and platforms.

The demonstrations take place during the Wednesday evening session; 16 of the demonstrations have also taken up the opportunity to introduce their applications through presentations during the Wednesday demonstration day session.

**ALL DEMONSTRATIONS  
ON DISPLAY 25/11/2009  
from 19:00 to 21:00 at ElectrumSalen**

Demonstrations	Presentation
	<b>25/11/2009</b>
Distributed Access Control Management: A XACML-based approach	10:30
FAST-SE: An ESB based Framework for SLA Trading	10:45
Gelee: Cooperative Lifecycle Management for (Composite) Artifacts	11:00
Hosted Universal Integration on the Web: the mashArt Platform	11:15
Sec-MoS C Tooling : Incorporating Security Requirements into Service Composition	11:30
Services inside the Smart Home: A Simulation and Visualization tool	11:45
SLA Management and contract-based Service Execution	15:00
Next generation public services in the context of the Future Internet	15:15
MODELPLEX Integrated Solution for Complex Service Architectures and Engineering	15:30
The SLA@SOI Framework	15:45
The S-Cube knowledge model	16:00
SOA4ALL in action	16:15
IT-tude.com: Bringing your organization online to the forefront of ICT research and business solutions	17:00
RadiotherapyGrid: Advanced Computational Radiotherapy Services with SLAs and Enhanced Security	17:15
SUDDEN: The opportunity of service based value chains for SMEs as suppliers for the automotive domain	17:30
ENGAGE: Engineering Service Modes with WS-Engineer and Dino	17:45
Multi-device mobile web portal dedicated created by MyMobileWeb, a development platform that simplifies the rapid development of top-quality mobile web applications.	
A pluggable framework for Tracking and Managing Faults in Service-oriented Systems	
EzWeb: putting a face on the Internet of Services	
FAST: bringing services to the front end via gadgets & mashup platforms	

### A Pluggable Framework for Tracking and Managing Faults in Service-oriented Systems

This demonstration describes a technology **independent fault management approach that uses a pluggable brokerage model to track and resolve changes and faults in service-oriented systems**. A case study is used to illustrate the efficacy of the approach.

On display 25/11/2009 19:00 to 21:00

### Distributed Access Control Management – A XACML-based approach

Enterprises are increasingly pervasive with users and services belonging to different domains. There is a need for multiple administrators to define rules that apply to their part of the collaboration. Traditional access control models are not sufficient. This demonstrator illustrates an authorization service developed by Swedish SME Axiomatics. It implements the eXtended Access Control Markup Language (XACML), which allows the expression of fine-grained access control rules in distributed environments.

Presentation 25/11/2009, 10:30 On display 25/11/2009 19:00 to 21:00

### ENGAGE: Engineering Service Modes with WS-Engineer and Dino

In this demonstration we present an approach to engineering service brokering requirements and capabilities using the concepts of Service Modes. The demonstration illustrates building service modes in UML2 with Rational Software Modeller, transforming modes in WS-Engineer and generating artefacts for runtime service brokering. The demonstration will feature a service brokering architecture for an Automotive In-Vehicle Services case study and is linked with a simulation of the animated vehicles.

Presentation 25/11/2009, 17:45 On display 25/11/2009 19:00 to 21:00

### EzWeb: putting a face on the Internet of Services

This demonstration is intended to give an overview of EzWeb, an Open Source Application Mashup Platform that allows users to design their own customized web front-end to the Internet of Services. Using EzWeb, users can resolve and automate their everyday tasks by self-servicing, combining and interconnecting, in an easy and flexible way, little application components that are available in a public catalogue on the Internet.

On display 25/11/2009 19:00 to 21:00

### FAST: bringing services to the front end via gadgets & mashup platforms

The demonstration will show how FAST allow users with no technical skills to develop gadgets that exploit backend services and are automatically deployed in any mashup platform. We will show that the gadget creation process comprises of a number of steps involving the identification of the problem, selecting the resources (backend services + graphical interfaces), building the screenflow and deploying the resulting gadgets on a mashup platform such as EzWeb and iGoolge. Once this is in place, a second part will demonstrate how to take it one step further by communicating independent gadgets.

On display 25/11/2009 19:00 to 21:00

### FAST-SE: An ESB based Framework for SLA Trading

SLA driven service transaction has been identified as a key challenge to take advantage of a SOA. FAST System provides a software framework for the automated creation of SLAs. In particular it have been developed as an extension to the ESB (Enterprise Service Bus) paradigm to create a transparent SLA management layer that drives any service invocation. Our framework has been successfully applied in two different scenarios and provides an extensible architecture to address new domains.

Presentation 25/11/2009, 10:45 On display 25/11/2009 19:00 to 21:00

### Gelee: Cooperative Lifecycle Management for (Composite) Artifacts

In this demonstration we introduce Gelee, our hosted platform for the specification and cooperative execution of lifecycles of artifacts of any kind. With Gelee we aim at filling two lacks we identify in current cooperative software systems when it comes to unstructured, artifact-based works (e.g., the writing of a project deliverable): the lack of state and the complete lack of automated actions. Lifecycles allow us to model the state of any object, and to automate lifecycle actions on online resources (e.g., a Google Doc).

Presentation 25/11/2009, 11:00 On display 25/11/2009 19:00 to 21:00

### Hosted Universal Integration on the Web: the mashArt Platform

Traditional integration practices like Enterprise Application Integration and Enterprise Information Integration approaches typically focus on the application layer and the data layer in software systems, i.e., on limited and specific development aspects. Current web mashup practices, instead, show that there is also a concrete need for (i) integration at the presentation layer and (ii) integration approaches that conciliate all the three layers together. In this demonstration, we show how our mashArt approach addresses these challenges and provides skilled web users with universal integration in a hosted fashion.

Presentation 25/11/2009, 11:15 On display 25/11/2009 19:00 to 21:00

### IT-tude.com - Bringing your organization online to the forefront of ICT research and business solutions.

IT-Tude.com connects emerging ICT research with business solutions, and offers your organization the opportunity to use this new and dynamic platform for your own outreach, as well.

IT-Tude.com delivers the latest content on Cloud and Grid computing, Virtualization, SaaS and more. We bring you use cases, analysis, expertise, trend-watch... while also providing the link and online visibility that offers your organization to jump onboard.

Presentation 25/11/2009, 17:00 On display 25/11/2009 19:00 to 21:00

## Multi-device mobile web portal dedicated created by MyMobileWeb, a development platform that simplifies the rapid development of top-quality mobile web applications.

This demonstration is intended to give an overview of an application developed with MyMobileWeb exploiting some of the most important functionalities and features of the platform. We will demonstrate advanced content & application adaptation exploiting the delivery context and more general context-awareness (location, orientation changes, recommendations, automatic form fill, etc) by means of a minimalist multi-device mobile web portal offering information about the Spanish National Soccer League.

On display 25/11/2009 19:00 to 21:00

## MODELPLEX Integrated Solution for Complex Service Architectures and Engineering

The MODELPLEX integrated solution based on Eclipse as an integration framework and consisting of a pre-selected subset of MODELPLEX tools i.e. the 'champion tool-set' will be demonstrated in specific use case scenarios. The main use case scenario will be the Thales realisation of an end-to-end model-driven engineering chain bridging from business towards architectural spaces and code generation. A Model-based repository technology will be demonstrated as a medium to enable collaborative work in a multi-user industrial context. Several Eclipse based tools such as MOFScript (Model to Text Transformation), TraMDE (Traceability Metamodel and analysis functionality) and the Epsilon Validation Language (EVL) as a language for capturing validation constraints over EMF models will be demonstrated along with the Reuseware Composition Framework which is an open-source model composition framework for composing models defined in arbitrary Ecore-based (or EMOF-based) languages.

Presentation 25/11/2009, 15:30 On display 25/11/2009 19:00 to 21:00

## Next generation public services in the context of Future Internet

NESSI, in the frame of its Working Group on iGovernment proposes an innovative ICT-driven approach which engages citizens in the public service delivery decision making process and, hence, enables governments to better understand and address citizens' needs during public service conceptualization and design while contributing to the services' adoption. In this way, next-generation public services will:

- balance the interests of the public realm and the market;
- consider individuals to be citizens, not just consumers, and thus balance the interests of communities and individuals;
- consider wider social concerns, not just narrow financial concerns.

In this presentation and demonstration we will show this new model for the delivery next generation of public services.

Presentation 25/11/2009, 15:15 On display 25/11/2009 19:00 to 21:00

## RadiotherapyGrid: Advanced Computational Radiotherapy Services with SLAs and Enhanced Security

A new set of services for the medical physicists' community is presented to help radiotherapy treatment planning. Because these simulations require a lot of computing power, the platform uses intensively external

resources provided through Grid infrastructure. To guarantee a low response time, the platform includes a negotiation mechanism based on SLAs. Additionally, secure mechanisms have been added to keep the safety of the transactions based on PDP and PEP.

Presentation 25/11/2009, 17:15 On display 25/11/2009 19:00 to 21:00

## Sec-MoS C Tooling - Incorporating Security Requirements into Service Composition

The Sec-MoS C Tooling is a novel set of tools and programming components that enables the high-level specification, modelling, mapping and enforcement of security requirements in business processes and service composition. Sec-MoS C enables traceability of security requirements at different levels of abstraction, automatic generation of configuration files containing enforceable security actions for the composed services and the involved security tools.

Presentation 25/11/2009, 11:30 On display 25/11/2009 19:00 to 21:00

## Services inside the Smart Home: A Simulation and Visualization tool

One of the greatest challenges in developing middleware for Smart homes is that this kind of systems are extremely difficult to test and verify. We propose to reduce the testing costs by replacing actual home services with virtual stubs behaving as if they were actual hardware installed somewhere in the house.

Presentation 25/11/2009, 11:45 On display 25/11/2009 19:00 to 21:00

## SLA Management and contract-based Service Execution

In the Internet of Services vision, services are traded via internet service marketplaces. Service provisioning is regulated by service level agreements (SLAs). In this demonstration, we present an infrastructure which supports SLA creation and negotiation as well as service provisioning and monitoring based on SLAs in the context of marketplaces.

Presentation 25/11/2009, 15:00 On display 25/11/2009 19:00 to 21:00

## SOA4All in Action

This demo will focus on the SOA4All Studio, a rich Web platform that provides users with a unified view covering the whole lifecycle of services, including design-time, run-time and post-mortem analysis. In particular, we will demonstrate some of the main functionalities provided by the SOA4All Studio through its user interface (e.g., editors for annotating services, lightweight platform for the consumption of semantically enriched services, analysis platform for monitoring service performance and usage results) in the context of realistic scenarios developed in the project.

Presentation 25/11/2009, 16:15 On display 25/11/2009 19:00 to 21:00

### The S-Cube Knowledge Model

The S-Cube Knowledge Model (KM) is intended to be a free, open-content “living” encyclopedia and will collect, cross correlate and summarize services-related terminology, definitions and knowledge. This demonstration will introduce the KM, show how the S-Cube project uses it as an integration point for the collection, analysis and reporting of concepts and how we use the KM to promote a common understanding of concepts and technology.

Presentation 25/11/2009, 16:00      On display 25/11/2009 19:00 to 21:00

### The SLA@SOI Framework

The demonstration presents the use of SLA@SOI Framework Prototype for a simple Use Case. The service-oriented application (Open Reference Case) is based on a well known Common Component Modelling Example (CoCoME), a legacy application supporting the sales process in a retail chain. The application was transformed into a manageable and SLA-aware application ready to be deployed with the SLA@SOI framework. The demonstrator present different views on the overall system allowing stakeholders like customers, service providers, and developers.

Presentation 25/11/2009, 15:45      On display 25/11/2009 19:00 to 21:00

### SUDDEN: The opportunity of service based value chains for SMEs as suppliers for the automotive domain

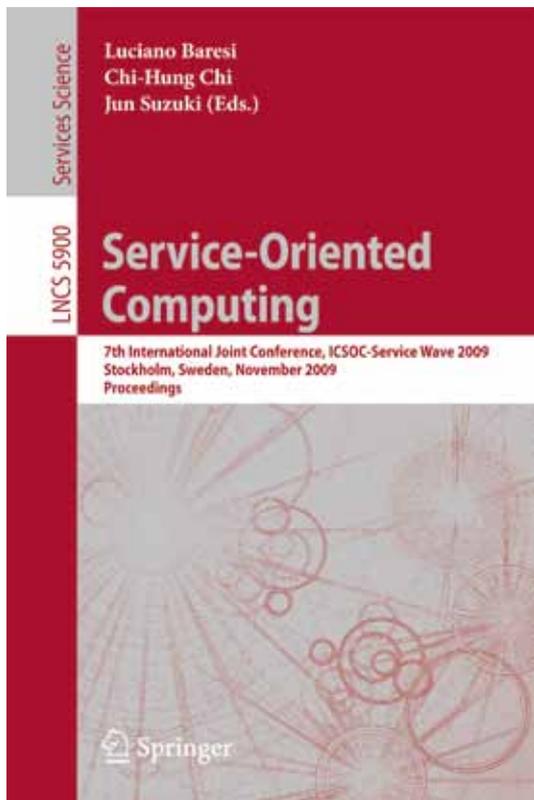
The widespread use of IT for discovery and delivery of organisational services brings forward the concept of convergent services, where organisational know-how is fused with software functionality to deliver added value across the supply chain. Exploring parallels between web service composition and virtual enterprise formation in the domain of automotive manufacturing, this demonstration aims to illustrate how conceptualising organisational contributions to a virtual enterprise as services and applying knowledge-based reasoning for emergent service composition can enable transparency and innovation.

Presentation 25/11/2009, 17:30      On display 25/11/2009 19:00 to 21:00

ICSOC, in its seventh edition, and ServiceWave in its second edition, worked together to convey a world-leading and unique opportunity for academic researchers and industry practitioners to report their state-of-the-art research findings in service oriented computing.

The Program Committee received 228 paper submissions from a number of different disciplines. 37 papers were accepted as regular contributions, for a very competitive acceptance rate of 16%; 8 further submissions were accepted as short papers as well as 5 industry papers. Some 100 people were involved in reviewing many good papers carefully and rigorously, these efforts were the key elements for a program that represents a highly selective and high quality set of research results.

The scientific papers including the short papers are published in the conference proceedings by Springer Verlag, as volume 5900 of the Lecture Notes in Computer Science. This is also the first volume of the new LNCS Sub line Services Science.



Volume reference: Baresi, L., Chi, C.-H., and Suzuki, J. (eds.): ICSOC-ServiceWave 2009, LNCS, vol. 5900, Springer, Heidelberg (2009)

ISBN: 978-3-642-10382-7

All the papers are presented during the conference, organised in 15 different sessions:

Composition	session 01
Discovery	session 02
Design principles	session 03
Customization and adaptation	session 04
Negotiation, agreements and compliance	session 05
Selection	session 06
Platforms & infrastructures	session 07
Security	session 09
Modelling and design	session 11
Validation and verification	session 12
Reputation and ranking	session 13
Service management	session 14
Short papers (I and II)	sessions 08 and 10
Industry papers	session 15

Session	Paper	Authors
01 Composition	Facilitating Workflow Interoperation using Artifact-centric Hubs	Richard Hull, Nanjangud Narendra, Anil Nigam
	Aspect Orientation for Composite Services in the Telecommunication Domain	Jorg Niemöller, Levenshteyn Roman, Eugen Freiter, Konstantinos Vandikas, Raphaël Quinet, Ioannis Fikours
	Intelligent Overload Control for Composite Web Services	Pieter Meulenhoff, Dennis Ostendorf, Miroslav Zivkovic, Hendrik Meeuwissen, Bart Gijsen
02 Discovery	Trust-Oriented Composite Services Selection and Discovery	Lei Li, Yan Wang, Ee-Peng Lim
	A Two-Tiered Approach to Enabling Enhanced Service Discovery in Embedded Peer-to-Peer Systems	Thaizel Fuentes, Sara Corfini, Antonio Brogi
	Web Service Selection with Incomplete or Inconsistent User Preferences	Hongbing Wang
03 Design principles	Energy-aware Design of Service-Based Applications	Alexandre Mello Ferreira, Kyriakos Kritikos, Barbara Pernici
	Action Patterns in Business Process Models	Sergey Smirnov, Matthias Weidlich, Jan Mendling, Mathias Weske
	Artifact-Centric Workflow Dominance	Diego Calvanese, Giuseppe De Giacomo, Rick Hull, Jianwen Su
04 Customization and adaptation	Requirements-Driven Collaborative Choreography Customization	Ayman Mahfouz, Leonor Barroca, Robin Laney, Bashar Nuseibeh
	An Automatic Approach to Enable Replacement of Conversational Services	Luca Cavallaro, Elisabetta Di Nitto, Matteo Pradella
	Towards Adaptable SOA: Model Driven Development, Context and Aspect	Slimane Hammoudi, Valérie Monfort
05 Negotiation, agreements and compliance	Modelling Service Level Agreements with Binary Decision Diagrams	Constantinos Kotsokalis, Ramin Yahyapour, Miguel Angel Rojas
	Provider-Composer Negotiations for Semantic Robustness in Service Compositions	Freddy Lecue, Nikolay Mehandjiev, Usman Wajid
	Evaluating Contract Compatibility for Service Composition in The SeCO2 Framework	Marco Comerio, Hong-Linh Truong, Flavio De Paoli, Schahram Dustdar
	Explaining the Non-Compliance between Templates and Agreement Offers in WS-Agreement	Carlos Müller, Manuel Resinas, Antonio Ruiz-Cortés
06 Selection	A Probabilistic Approach to Service Selection with Conditional Contracts and Usage Patterns	Adrian Klein, David Helmut, Fuyuki Ishikawa, Bernhard Bauer
06 Selection (Continued)	ServiceTrust: Supporting Reputation-Oriented Service Selection	Qiang He, Jun Yan, Hai Jin, Yun Yang

Session	Paper	Authors
	QoS Browsing for Web Service Selection	Chen Ding, Preethy Sambamoorthy
07 Platforms & infrastructures	An Orchestration as a Service Infrastructure using Grid Technologies and WS-BPEL	André Höing, Guido Scherp, Stefan Gudenkauf, Dirk Meister, André Brinkmann
	The FAST Platform: An Open and Semantically-enriched Platform for Designing Multi-Channel and Enterprise-Class Gadgets	Volker Hoyer, Janner Till, Ivan Delchev, Javier Lopez, Sebastian Ortega, Rafael Fernandez, Knud Hinnerk Möller, Ismael Rivera, Marcos Reyes, Manuel Fradinho
	Message-Oriented Middleware with QoS Awareness	Hao Yang, Minkyong Kim, Kyriakos Karenos, Fan Ye, Hui Lei
08 Short papers I	Learning the Control-flow Perspective of a Business Process using ICN-based Process Models	Aubrey J. Rembert, Clarence A. Ellis
	Fine-Grained Recommendation systems for service attribute exchange	Christopher Staite, Rami Bahsoon, Stephen Wolak
	A Generative Framework for Service Process Composition	Rajesh Thiagarajan, Wolfgang Mayer, Markus Stumptner
	Achieving Predictability and Service Differentiation in Web Services	Vidura Gamini Abhaya, Zahir Tari, Peter Bertok
09 Security	Incorporating Security Requirements into the Service Composition: From Modelling to Execution	Nelson Souto Rosa, André Souza, Bruno Silva, Julio Damasceno, Paulo Maciel, Robson Medeiros, Bryan Stephenson, Fernando Lins, Hamid Motahari-Nezhad, Jun Li, Caio Northfleet
	End-to-End Security for Enterprise Mashups	Florian Rosenberg, Rania Khalaf, Matthew Duftler, Francisco Curbera, Paula Austel
	A Genetic Algorithms-based Approach for Optimized Self-protection in a Pervasive Service Middleware	Weishan Zhang, Julian Schuette, Mads Ingstrup, Klaus M. Hansen
10 Short papers II	Role of Process Modeling in Software Service Design	Susanne Patig, Harald Wesenberg
	Assisting Trustworthiness based Web Services Selection Using the Fidelity of Websites	Lijie Wang, Fei Liu, Ge Li, Liang Gu, Liangjie Zhang, Bing Xie
	Web Service Search on Large Scale	Nathalie Steinmetz, Holger Lausen, Manuel Brunner
	Enabling Adaptation of Pervasive Flows: Built-in Contextual Adaptation	Annapaola Marconi, Marco Pistore, Adina Sirbu, Frank Leymann, Hanna Eberle, Tobias Unger
11 Modeling & design	A service-oriented UML profile with formal support	Alberto Lluch Lafuente, Roberto Bruni, Matthias Hölz, Nora Koch, Phillip Mayer, Ugo Montanari, Andreas Schroeder, Martin Wirsing
	Designing workflows on the fly using e-BioFlow	Ingo Wassink, Matthijs Ooms, Paul E. van der Vet

Session	Paper	Authors
	Measuring the Quality of Service Oriented Design	Renuka Sindhgatta, Bikram Sengupta, Karthikeyan Ponnalagu
12 Validation & verification	Specification, Verification and Explanation of Violation for Data Aware Compliance Rules	Ahmed Awad, Matthias Weidlich, Mathias Weske
	Generating Interface Grammars from WSDL for Automated Verification of Web Services	Sylvain Halle, Graham Hughes, Tefvik Bultan, Muath Alkhalaf
	Satisfaction of Control Objectives by Control Processes	Daniela Marino, Fabio Massacci, Andrea Micheletti, Nataliya Rassadko, Stephan Neuhaus
13 Reputation and ranking	Effective and Flexible NFP-based Ranking of Web Services	Matteo Palmonari, Marco Comerio, Flavio De Paoli
	Combining Quality of Service and Social Information for Ranking Services	Qinyi Wu, Arun Iyengar, Revathi Subramanian, Isabelle Rouvellou, Ignacio Silva-Lepe, Thomas Mikalsen
	Web Services Reputation Assessment Using a Hidden Markov Model	Zaki Malik, Ihsan Akbar, Athman Bouguettaya
14 Service management	MC-Cube: Mastering Customizable Compliance in the Cloud	Tobias Markus Anstett, Dimka Karastoyanova, Frank Leymann, Ralph Mietzner, Ganna Monakova, Daniel Schleicher, Steve Strauch
	Another Approach to Service Instance Migration	Nannette Liske, Niels Lohmann, Christian Stahl, Karsten Wolf
	Distributed, Cross-Domain Configuration Management	Liliana Pasquale, Jim Laredo, Heiko Ludwig, Kamal Bhattacharya, Bruno Wassermann
15 Industry papers	Using Mashup Integration Services in B2B Scenarios	Robert Siebeck, Till Janner, Christoph Schroth, Volker Hoyer, Wolfgang Wörndl, Florian Urmetzer
	Lessons Learned from Composing Web Services and Human Activities	Donghui Lin, Yoshiaki Murakami, Toru Ishida, Yohei Murakami, Masahiro Tanaka, Beatriz
	Medical equipment maintenance workflow monitoring with service-oriented multi-agent services	Beatriz Lopez, Alberto Martín, David Daroca, Joaquim Meléndez, Sara Lozano
	Improving quality of the service engagement process using a GUI-based software tool	James Rhodes, Tianwei Chen, Isaac G. Council, Kenneth Johns, Toby Lehman, Ray Strong, Ruoyi Zhou, William Lovero
	Tenant Behavior Analysis in Software as a Service Environment	Ning Duan, Xin Zhang, Wei Sun, Zhongbo Jiang

## ICSOC-ServiceWave 2009 presents 11 workshops, grouped in the following tracks:

### Scientific workshops

- Service Engineering (SE)
- Business Models and Architectures (BMA)
- Service Quality and Service Level Agreement (SLA)

### Business Models and Architectures

Track coordinator : **Asit Dan** (asit@us.ibm.com)

The Business Models and Architectures track focuses on the overall modern enterprise. The ability to react quickly to ongoing changes in the marketplace or customer requirements is one of the biggest challenges facing every business. To react, business may need to change their business models and processes, their IT infrastructure, the topology or distribution of the organization and business units, form alliances with partners or co-producers, outsource missing capabilities, contract services, or even acquire and merge with other businesses. Business models and architectures help plan the optimal changes. The speed in which such architectures can be made fully operational is what differentiates winners from losers.

The three workshops in this track address different, yet complementing, facets of the problem. **TEAR** is aligning the Enterprise Architecture with its business models: adapting the IT infrastructure and changing applications so that they optimally support the new business needs. **GLOBALIZATION (SG-PAW)** is looking at enacting the new business processes by encapsulating organizational work as services that can be combined in new ways and optimize its end-to-end operations across geographical, organizational, and cultural boundaries. Finally, **SOC-LOG** is focusing on addressing the challenges of a specific application domain, namely, logistic through developing SOC based solutions and examining aspects of Knowledge Management while bringing together researchers from different, though overlapping areas (logistics/ supply chain management and service-oriented computing/ systems).

### Application Workshops

- Business Experiences (BE)
- Technologies for Services (TS)

### Service Quality and Service Level Agreement

Track coordinator: **Farouk Toumani** (ftoumani@isima.fr)

The dynamic nature of the business and operational environments where service-based applications live poses new challenges to the engineering and provisioning of such applications. The “Service Quality and Service Level Agreements” track focuses on one of the most significant of these challenges: how to guarantee the quality characteristics of SBAs.

The track will approach this challenge from two complementary perspectives. First, it will investigate how the exploitation of service contracts and service level agreements to define the exact conditions under which services are provided and the quality characteristics are guaranteed. Second, it will investigate solutions supporting a timely and effective identification and reaction to the changes in the business and operational environments.

This track includes two workshops that correspond to the two perspectives.

- **NFPSLAM-SOC** aims to tackle the research problems around models, concepts, languages and methodologies that enable the specifications of non-functional properties and Service Level Agreements in the context of Service Oriented Computing, with a special focus on transparent,
- multi-level, and holistic NFP and SLA management into service oriented systems.

**MONA+** is looking instead at the problems related to the monitoring and adaptation mechanisms and strategies, with a special focus on the relations and interdependencies between the network layer and the service layer.

### Service Engineering Track

Track coordinator: **Frédéric Gittler** (frederic.gittler@hp.com)

With the increasing adoption of service-oriented software architecture and technologies, traditional software engineering approaches are often not well aligned to the specific needs of the development of service-oriented applications. Software Service Engineering (SSE), a domain that has emerged to specifically address those needs, is becoming increasingly important.

Two different aspects of SSE will be discussed in the workshops in this track; in the first workshop, **WESOA'09**, the focus will be on the key challenges arising from the specific needs of service-oriented applications. In **User Generated Services**, the focus will be on the development of services as a user-centric operation rather than a service-centric point of view.

## WORKSHOPS IN DETAILS

### Track Business Experiences Track

#### BE 01 Industrial Experience for Service-Oriented Computing

23.11.2009 10:00 – Application

The aim of this workshop is to identify the most promising research directions that can have an impact on the service industry for the purpose of aligning academic and industrial research agendas. The evaluation of different proposed approaches and benchmarks and complete case studies is needed to be able to assess which are the most promising research directions that can have an impact on the industrial development of this field.

<http://www.s-cube-network.eu/ie4soc>

Barbara Pernici ([barbara.pernici@polimi.it](mailto:barbara.pernici@polimi.it))

#### BE 02 Common Capabilities for Service Oriented Infrastructures and Cloud Computing

23.11.2009 14:30 – Application

This is a full session workshop that brings together delegates from leading commercial, public and research organizations around the world to share experiences of commercial applications of Service Oriented Infrastructures based on the fusion of Web Services and Grid Computing paradigms as a foundation for Service Oriented IT in the 21st century. Presented by the BEinGRID project.

Theo Dimitrakos ([theo.dimitrakos@bt.com](mailto:theo.dimitrakos@bt.com))

#### BE 03 Business Opportunities and Challenges for Grid and Cloud Computing

24.11.2009 09:30 – Application

This workshop provides a consultancy oriented view of business opportunities and challenges for grid and cloud computing. It focuses on the latest market trends and the challenges that market players face when developing new solutions to emerging business opportunities. Special attention is paid to the business models, product strategies, service commercialization, and legal safeguards. Presented by the BEinGRID project.

Karita Luokkanen-Rabetino ([karita.luokkanen@atosorigin.com](mailto:karita.luokkanen@atosorigin.com)),

### Track Business models and Architectures Track

#### BMA01 The 4th Workshop on Trends in Enterprise Architecture Research (TEAR 2009)

23.11.2009 10:00 – Research

TEAR is aligning the Enterprise Architecture with its business models: adapting the IT infrastructure and changing applications so that they optimally support the new business needs.

<http://tear.iwi.unisg.ch/>

[joachim.schelp@unisg.ch](mailto:joachim.schelp@unisg.ch), [stephan.aier@unisg.ch](mailto:stephan.aier@unisg.ch), [mschoenherr@sysedv.tu-berlin.de](mailto:mschoenherr@sysedv.tu-berlin.de)

#### BMA02 1st International Workshop on SOA, Globalization, People, & Work (SG-PAW 2009)

23.11.2009 14:30 – Research

GLOBALIZATION (SG-PAW) is looking at enacting the new business processes by encapsulating organizational work as services that can be combined in new ways and optimize its end-to-end operations across geographical, organizational, and cultural boundaries

<http://tinyurl.com/sgpaw2009>

Daniel V Oppenheim ([music@us.ibm.com](mailto:music@us.ibm.com)), [tai@aifb.uni-karlsruhe.de](mailto:tai@aifb.uni-karlsruhe.de), Francisco Curbera ([curbera@us.ibm.com](mailto:curbera@us.ibm.com)), [dustdar@infosys.tuwien.ac.at](mailto:dustdar@infosys.tuwien.ac.at)

#### BMA03 SOC-LOG: 1st International Workshop on Service Oriented Computing in Logistics

24.11.2009 09:30 – Research

SOC-LOG is focusing on addressing the challenges of a specific application domain, namely, logistic through developing SOC based solutions and examining aspects of Knowledge Management while bringing together researchers from different, though overlapping areas (logistics/supply chain management and service-oriented computing/ systems)

<http://soclog09.wifa.uni-leipzig.de/>

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**Track Technologies for Services Track****TS 01 Identity Management in Service Oriented Architectures**

23.11.2009 14:30 – Application

This workshop focuses on the intersection and complementary work related to the identity management in dynamic and reconfigurable service architectures and infrastructures. Presented by the projects MASTER, PrimeLife and TAS3. These projects are complementary and given their state of the art, they are likely to provide the reusable results as well as few key elements of a strategy towards embedding Security and Trust in service infrastructures.

Aljosa Pasic (aljosa.pasic@atosorigin.com),

**TS 02 Event-Driven Business Process Management**

24.11.2009 10:00 – Application

This workshop presents the challenges in realizing Event-Driven BPM and describe a conceptual reference model and a reference architecture for it. This workshop will also address the integration of Complex Events, the current and future movement on edBPM-related standards (including hands-on examples and first prototypes), and the challenges of dynamically starting, stopping, terminating or changing Internet services driven by events.

Rainer Ammon (rainer.ammon@citt-online.com),

**Track Service Engineering Track****SE 01,02 Fifth International Workshop on Engineering Service-Oriented Applications (WESOA'09),**

23.11.2009 10:00 – Research

<http://www.wesoa.org/>

christian.zirpins@kit.edu, jirif@vse.cz, gobellot@unex.es, jychung@us.ibm.com, robertdj@us.ibm.com, lamersdorf@informatik.uni-hamburg.de, w.emmerich@cs.ucl.ac.uk

**SE 03 International Workshop on User-generated Services**

24.11.2009 09:30 – Research

<http://fast.morfeo-project.eu/workshops/ugs2009/>

Knud Hinnerk Möller (knud.moeller@deri.org), jychung@us.ibm.com, Fco. Javier Soriano Camino (jsoriano@fi.upm.es)

**Track Service quality and SLA Track****SLA 01,02 Non Functional Properties and Service Level Agreements Management in Service Oriented Computing Workshop (NFPSLAM-SOC'09)**

23.11.2009 10:00 – Research

NFPSLAM-SOC aims to tackle the research problems around models, concepts, languages and methodologies that enable the specifications of non-functional properties and Service Level Agreements in the context of Service Oriented Computing, with a special focus on transparent, multi-level, and holistic NFP and SLA management into service oriented systems

<http://events.sti2.at/nfpslam-soc09/>

Flavio De Paoli, Universita degli studi di Milano - Bicocca, Italy, Paoli (depaoli@disco.unimib.it), Ioan Toma, STI Innsbruck, Austria (ioan.toma@sti2.at), Hui Li, SAP Research, Germany, (hui01.li@sap.com), Ramin Yahyapour, Dortmund University of Technology, Germany, Marcel Tilly, European Microsoft Innovation Centre, Germany (marcel.tilly@microsoft.com), Andrea Maurino, Universita degli studi di Milano - Bicocca, Italy (maurino@disco.unimib.it), Wolfgang Theilmann, SAP Research, Germany

**SLA 03 2nd International Workshop on Service Monitoring, Adaptation and Beyond (MONA+)**

23.11.2009 16:30 – Research

Continued on 24.11.2009 9:00

MONA+ is looking at the problems related to the monitoring and adaptation mechanisms and strategies, with a special focus on the relations and interdependencies between the network layer and the service layer.

<http://www.s-cube-network.eu/MONA2>

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## ICSOC SERVICEWAVE 2009 PHD SYMPOSIUM

The ICSOC/ServiceWave PhD Symposium 2009 in Stockholm is the 5th PhD Symposium of a series held in conjunction with the ICSOC conferences in Sydney, Australia (2008), Vienna, Austria (2007), Chicago, USA (2006), and Amsterdam, The Netherlands (2005). Students are encouraged to submit papers that give a clear description of their PhD work in terms of problem statement, research challenges, proposed solution, impact, research plan, preliminary results, and positioning of their work with respect to the state of the art.

The Symposium operates in a workshop format and gives PhD students the opportunity to showcase their research and particularly encourages students that are still developing their research methodology or are somewhere in the middle of their research program to submit their contributions for discussion. This year, 12 papers from the field of service oriented computing were accepted after a rigorous selection process. Also, this year's PhD Symposium received sponsorship from IBM T.J. Watson Research, New York, USA. During the workshop, the following activities will be conducted:

- ➔ All students will receive fruitful feedback and advice on their research approach and thesis in advance. In addition to feedback from PC members, papers will be peer-reviewed by other students.
- ➔ Each paper will be presented to all symposium participants. This will give PhD students the opportunity to present and discuss their research in a constructive and critical atmosphere

In addition the workshop will provide the opportunity for all participants to informally interact and exchange ideas, suggestions, and experiences with each other.

**Florian Daniel**, University of Trento, Italy and **Fethi Rabhi**, UNSW, Australia (PhD Symposium Chairs)

## MODEL DRIVEN APPROACH FOR COMPLEX SERVICE ARCHITECTURES AND ENGINEERING

Collaborative meeting

Service architecture and Engineering have reached a level of maturity that lead to their introduction into complex systems. As such the development of new methods of software engineering capable of adapting to emerging demands is a real priority. MODELPLEX (Modelling Solutions for Complex Systems) is organizing the collaboration meeting on "Model Driven Approach for Complex Service Architectures and Engineering" in order to identify what are the outcomes of the work carried out in these areas in different FP6 and FP7 projects during the last months.

Following the "Software innovation for Complex Service Architectures and Engineering and Formal Methods" <sup>1</sup> collaboration meeting that took place within the Internet of Services 2009 in Brussels in June, organizers have decided to go forward on the topic.

This collaboration meeting has as objectives:

- ➔ Identify results that could be used and shared by projects by presenting some of them
- ➔ Brainstorm on topics link to "Model Driven Approach for Complex Service Architectures and Engineering"
- ➔ Identify collaboration and prepare future calls



MODELPLEX is an FP6 project (Sept 2006- Feb 2010)- 20 partners – Total cost: 20.007.340 € - EC Contribution: 11.004.997 €

<http://www.modelplex.org/>

Contact point: [sebastien.praud@thalesgroup.com](mailto:sebastien.praud@thalesgroup.com) (Thales, MODELPLEX Technical coordinator)

1. [http://ec.europa.eu/information\\_society/events/cf/ios09/item-display.cfm?id=2218](http://ec.europa.eu/information_society/events/cf/ios09/item-display.cfm?id=2218)

All students participating in the PhD Symposium will receive a travel grant sponsored by IBM T.J. Watson Research, New York, USA

## NATIONAL INITIATIVES

When NESSI launched in September 2005, one key priority of the ETP was to increase the collaboration with and between the Member States. Since then, national technology platforms have emerged with a focus on the topics of software and services. Some of them have emerged as an effect of the NESSI construction, due to the detection of an opportunity in creating a structure similar to NESSI at national and regional level. Others have emerged driven by different objectives and, initially, with a lower level of interaction with NESSI.

However, whatever their origin, these platforms have been increasingly working together, starting in 2008. In the summer of 2008, the Spanish platform for software and service (INES) invited representatives from other national platforms to join their annual General Assembly in Mallorca. Another meeting of the representatives took place in the winter of 2008 in Madrid during ServiceWave 2008. The conclusion of all these meetings was the need to initiate and structure a Network of Platforms to work together. Since then, a Memorandum of understanding for the NESSI National & Regional Platforms has been elaborated by Bulgaria, Hungary, Norway, Poland, Spain, Slovenia, and The Netherlands, describing the rationale, structure and strategy of the collaboration, and an open collaboration space to which any member of the NESSI platforms can contribute has been set up at <http://nessiplatforms.ning.com>.

The overall goal of the NESSI Platforms network is to promote the development and application of ICT technologies (mainly software and services) within European industry and government. They should help Europe face the multitude of challenges caused by profound changes in social attitudes, economic conditions and the business environment. Next steps will focus on the enlargement beyond the initial 7 countries.

The NESSI National Initiatives session takes place from 10:30 to 12:00 is open to all. In addition to the presenters from Spain and The Netherlands, representatives from Bulgaria, Slovenia and Sweden have confirmed their attendance.

10:30	Introduction to the session <b>Santi Ristol</b> , President of INES – NESSI Spain
10:35	National Initiatives collaboration status during 2009 <b>Carmen Perea</b> , INES – NESSI Spain
10:55	NESSI platforms value for NESSI <b>Frederic Gittler</b> , Chairman of NESSI Steering Committee
11:05	National initiatives strategy for 2010 <b>Sjoerd Meihuizen</b> , Jacquard – NESSI Netherland
11:25	Open discussion among all participants
11:50	Conclusions

## NESSI GENERAL ASSEMBLY

The last NESSI General Assembly took place exactly two years ago, in December 2007. In 2008, NESSI focused its efforts on the convergence of the Future Internet and initiated the cross-ETP ServiceWave conference. But even within the Future Internet context, specific needs remain unanswered in the services domain, and NESSI has decided to hold a short, informative and interactive NESSI General Assembly in December 2009.

This General Assembly is therefore the occasion to provide the NESSI members with the following opportunities:

- ➔ a comprehensive update on NESSI's evolution since December 2007, at the level of memberships, research, results and ambitions
- ➔ an interactive session, in which the major research directions that NESSI has elaborated for 2010 and 2011 will be presented, to open up further discussions. Participation to this debate is important in orienting not only NESSI's future, but also in terms of contributions to the on-going update of the European Commission's work programme due at the end of this year.

15:00 – 15:30	The NESSI evolution over 2008 and 2009 (memberships, research, structure, activities, results, role of NESSI in the Future Internet) <b>Frédéric Gittler</b> , NESSI SC Chairman
15:30 – 15:45	What does it mean to be a NESSI Strategic Project? <b>Yaron Wolfsthal</b> , IBM, the NESSI Strategic Reservoir Project
15:45 – 16:00	What can a NESSI Working Group contribute? How can it operate? <b>Aljosa Pasic</b> , Atos Origin, the NESSI Trust, Security, Dependability working group
16:00 – 16:30	The upcoming research areas identified by NESSI <b>Stefano De Panfilis</b> , Engineering Ingegneria Informatica, NESSI Technical Director
17:00 – 17:45	Open discussion on the research areas presented before the coffee break chaired by <b>Stefano De Panfilis</b> , <b>Nuria de Lama</b> , <b>Frédéric Gittler</b>
17:45 – 18:00	Closing remarks <b>Frédéric Gittler</b>

# ICSOC- SERVICEWAVE 2009 IS PLEASED TO WELCOME ITS SPEAKERS



## Reinhold Achatz

CTO, Siemens

**Software Related Services: a Key Element in the Future Internet**

Reinhold Achatz is Corporate Vice President of Siemens AG, in this function he is head of Corporate Research and Technologies (since 2006) and head of the Corporate Development Center (since April 2009).

He is responsible for the global research activities of Siemens AG in the area of Materials & Microsystems, Power & Sensor Systems, Production Processes, Information & Communications, Software & Engineering, Automation, Imaging, SMART Innovation and Exploration & Processing of Natural Resources with over 2,200 employees. In the Development Center, Dr. Achatz is driving the integration of the product development process with the expertise of 2,600 software engineers worldwide, the majority of whom are from India and Central Eastern Europe.

In addition, Dr. Achatz is Member of the Siemens Innovation Steering Committee, Board member and vice president of the OPC Foundation (since 1995), Board member and chairman of the EU's NESSI Technology platform, Member of the Fraunhofer Institute's Board of Trustees on Experimental Software Engineering (IESE), in Kaiserslautern, Germany, Siemens Ambassador for the Technical University Kaiserslautern, the University of Saarland, Vice Chairman of Münchner Kreis, Supranational Association for Communications Research (since 2007), Member of the European Research Area Board (ERAB), Member of the Board of the Committee for Research, Innovation and Technology of the German, Bundesverband der Deutschen Industrie e.V. (BDI) and chair of the Research and Development, Executive Working Group for the German Zentralverband Elektrotechnik- und Elektronikindustrie e.V. (ZVEI)



## Mario Campolargo

EU Director "Emerging Technologies and Infrastructures"

**Research on Future Internet - the way forward**

Mário Campolargo is the Director of the "Emerging Technologies and Infrastructures" Directorate of DG-INFOSO in charge of Future and Emerging Technologies, ICT based infrastructures for science as well as

ICT trust and security, experimental facilities and experimentally driven research for Future Internet. Before joining the European Commission in 1990, he worked for 12 years in the R&D Center of Portugal Telecom as a researcher and manager. He has a Degree in Electrical Engineering by the University of Coimbra, a Master of Science in Computing Science by the Imperial College London, a Post graduate in Management by the Solvay Business School in Brussels and a European Studies Diploma by the Université Catholique de Louvain-la-Neuve in Belgium.



## Stefano De Panfilis

Engineering, Technical Director, NESSI

**The upcoming research areas identified by NESSI**

**Architectures – enablers or barriers to the Future Internet?**

Stefano De Panfilis is the Director of the Research & Development Laboratories Department at Engineering Ingegneria Informatica S.p.A., leading a team of about 100 research-

ers in Italy and Europe.

He graduated cum laude in Mathematics from the University of Rome "La Sapienza". In 1984, he was hired in Engineering as a software engineer. In April 1986, he became Project Manager. In July 1988, he moved to the R&D department managing the "Formal Methods" unit.

Since 1993, he has supported Engineering through the ISO-9001 compliance certificate procedure and he is currently involved in the CMM assessment process.

In April 1994, he became active in European funded R&D projects, where he coordinated QualiPSo (IST 6FP), an Integrated Project aiming at leverage Open Source Software development to widely recognised industrial standards, SeCSE (IST 6FP), an Integrated Project aiming at implement a platform to support Service-Centric Systems Engineering. Prior to these projects, he managed the CBSEnet (IST-5FP Network of Excellence), CLARiFi (IST 5FP), DOOR (ESPRIT 4FP), SQUAD (INCO-DC), and VALSE (TV&TT Initiative) projects, as well as the ENG-SODEPRO, DECO' and DOMINARE ESSI PIEs (Process Improvement Experiments).

He actively participated since its beginning to the creation and setting up of the NESSI ETP of which he is the Technical Director and the Coordinator of the Strategic Research Agenda Committee.

He is currently coordinating NEXOF-RA (IST FP7), an Integrated Project aiming at building the NESSI Reference Architecture through an Open Construction Process which involves researchers from all over the world. He is also member of the Future Internet Assembly caretakers committee set-up by the European Commission. Author of several scientific papers appeared on international journals and in conferences proceedings, he is member of several international conferences Program Committees



## Adam Dunkels

Networked Embedded Systems Group, SICS

adam@sics.se

**Interconnecting Smart Object with IP**

Adam Dunkels, PhD, is a senior researcher at the Swedish Institute of Computer Science. He is the author of the Contiki operating system and the uIP and lwIP embedded Internet communication software. His software is used in hundreds of thousands of devices

in space, on earth, and on the seven seas. He has published over 50 scientific papers on the subjects of the Internet of Things, sensor networks, and smart objects.

He has received the ACM SIGOPS EuroSys 2008 Roger Needham PhD thesis award, the 2007 Xerox Chester Carlson award, and the ERCIM Cor Baayen 2008 award. In 2009, MIT Technology Review named him one of the TR35, the top 35 innovators under the age of 35.

## SPEAKERS AND PANEL CHAIRS



### Frédéric Gittler

HP Labs, NESSI Chairman

**The sum is better than the parts :  
implementing an ETP research agenda**

Frédéric Gittler is working as senior research engineer and architect at Hewlett-Packard Laboratories (HPLB). Frédéric made his entire career in Hewlett Packard, both in the United States and in Europe. Frédéric has developed products and so-

lutions, delivered consulting, and participated to research in the areas of networking, security, large system architectures, and governance. As representative of HP to the NESSI Steering Committee, Frédéric has been a core contributor to both the processes and the deliverables of the initiative. Since beginning of 2009 he has been unanimously elected NESSI SC Chairman.



### Sergio Gusmeroli

Txt, Corporate Research Director

**Services, Content and Things: how do they  
fit together?**

Sergio Gusmeroli was born in Sondrio (Italy) in 1961. He obtained a degree in IT Engineering in 1986 at Politecnico Milano with a thesis about Artificial Intelligence for Industrial Applications. After several working experiences both in research and in commercial IT companies, he joined in 1995 TXT e-solutions, where he's now playing

the role of Corporate Research Director. Sergio's specific research interests are in Enterprise Interoperability and Enterprise Collaboration fields, where he's now coordinating an FP7 Integrated Project named COIN ([www.coin-ip.eu](http://www.coin-ip.eu)). Sergio is one of the animators of the Future Internet working groups in Future Internet Service Offer and Real World Internet. He's been author since 1985 of several publications to national and International conferences and journals.



### David Kennedy

Chairman of the European Future Internet Initiative

**The European Internet: Emerging Markets  
and Services**

David Kennedy is Director of Eurescom, a leading European organisation for managing collaborative R&D in telecommunications and providing efficient management and support of R&D projects, programmes, and initiatives for our customers. David has a background in Telecommunications network operation and experience working with equipment manufacturers so he has a good understanding of the challenges of bringing new networks and services to the market. In recent years he has been heavily involved with European technology platforms and progressing the European competitiveness in the ICT domain. David has a particular interest in promoting work in Europe on the future Internet and is the Chairman of the European Future Internet Initiative.



### Martin Körling

Ericsson, Director of Service Layer Technologies

**Towards an Open Mobile Internet**

Martin Körling has been with Ericsson since 1997, after having received a M.Sc. in Engineering Physics and a Ph.D. in Computational physics at the Royal Institute of Technology in Stockholm. He is currently Director of Service Layer Technologies within Ericsson

Research. Martin has been actively involved in the evolution of wireless data technologies for example within IETF. Recently, the focus has been on multimedia services and enablers, for example establishing open standards for IPTV, via the Open IPTV Forum



### Gunnar Landgren

Vice President, KTH

**Opening Session**

Prof. Gunnar Landgren has a background in Semiconductor materials and technology at research institutes and since 1993 as professor at KTH. He has taken special interest in optoelectronics and he is co-author of more than 100 scientific publications. Since 1995 he has mainly been involved with university and science management at KTH; initially as Head of the Electrum Laboratory, later as Vice president in charge of the KTH Kista Campus development during 1998-2004 - a part of the innovation driven public-private partnership "Kista Science City" creating one of the world's most dynamic ICT-hotspots. Since 2005 he is Vice President with responsibility for Centers of Excellence, research infrastructure and European programs serving all parts of KTH.



### Joan Massó

CEO Gridsystems

**How to make money out of cloud  
computing?**

Prof. Joan Massó, founder and CEO of Grid Systems, S.A. ([www.gridsystems.com](http://www.gridsystems.com)) and Nigulia, S.L. ([www.nigulia.com](http://www.nigulia.com)), received his PhD at the University of the Balearic Islands (Mallorca, Spain) in 1992 and spent the following 4 years at the National Center

for Supercomputing Applications (Urbana, Illinois, USA) as research scientist, working with a world class team in the development of the early grid technology. In 1996, he moved to Germany and spent 3 more years at the Max Planck Institut für Gravitationsphysik (Potsdam) as Director of Supercomputing, where he created the Cactus Code, one of the world leading open source toolkits for scientific grids. He has participated in dozens of international projects and has written more than 100 papers. In 1999 he came back to his beloved home land of Mallorca as senior technical advisor to the Spanish government and Professor of theoretical physics at the Balearic Islands University. In 2000, he founded GridSystems, which is currently one of the European leaders in grid and cloud computing technology. He is also an executive member of the board of the Institute of Applied Computing and Community Code, a member of the European Commission group of experts on Cloud Computing, and he also works as an advisor to several companies in Europe. He recently founded Nigulia, a new startup for stratospheric cloud solutions.

## SPEAKERS AND PANEL CHAIRS



### Bashar Nuseibeh

Chief Scientist, Lero

Software Engineering Challenges for Service-Oriented Computing

Bashar Nuseibeh is Professor of Software Engineering and Chief Scientist at Lero - the Irish Software Engineering Research Centre. He is also a Professor of Computing at the Open University, UK, where he served as Director of Research (2002-2008), and a

Visiting Professor at Imperial College London and the National Institute of Informatics, Japan. Previously he was a Reader at Imperial College London and Head of its Software Engineering Laboratory. His research interests are in software requirements engineering and design, software process modelling and technology, security and privacy, and technology transfer. He has published over 130 refereed papers and consulted widely with industry, working with organisations such as the UK National Air Traffic Services (NATS), Texas Instruments, Praxis Critical Systems, Philips Research Labs, and NASA. Bashar was Editor-in-Chief of the Automated Software Engineering Journal (and currently Editor Emeritus), is incoming Editor-in-Chief of IEEE Transactions on Software Engineering (from January 2010), and a member of the Editorial Board of several other international journals. He has served as programme chair of ASE'98, RE'01, and ICSE'05, was Chair of the Steering Committee of ICSE, and is Chair IFIP Working Group 2.9 (Requirements Engineering). He received a 2002 Philip Leverhulme Prize, an ICSE'2003 Most Influential Paper award, and a Senior Research Fellowship of the Royal Academy of Engineering and Leverhulme Trust (2005-2007). He was elected a Fellow of Automated Software Engineering, and is a Fellow of the BCS and IET, and a Chartered Engineer.



### Aljosa Pasic

Department Director, Atos Research & Innovation

Session NESSI General Assembly

Dr. Aljosa Pasic works as a department director in Atos Research & Innovation, based in Madrid, Spain. He graduated Information technology at Electro technical Faculty of Technical University Eindhoven, The Netherlands and has been working for Cap Gemini

(Utrecht, The Netherlands) before joining Sema Group Spain (now part of Atos Origin) in 1998. During the past ten years, he participated in many European projects in the area of security and e-government. Since 2003 he is also certified as Project Manager Professional (PMP) and is a member of several Working Groups in international organisations such as PMI, ENISA, EOS, ERCIM or IFIP. He is also the chairman of Trust, Security and Dependability Working Group of NESSI (European Technology Platform for Software & Services).



### Santi Ristol

Atos Origin Innovation, INES Chairman

One year of the Future Internet: is cloud computing the new wave?

High Degree in Telecommunication Engineering, Polytechnic University of Catalonia in Barcelona (1992). Master in e-commerce by the Universitat Ramon Llull (2000). He joined Atos Origin Spain in 1992 (since

1994 in R&D Projects), currently he is Business Director leading the Services Area in Atos Research & Innovation. This area includes all R&D&i activities related to Grid & Cloud Computing technologies, Semantic technologies, Software & Services Engineering, Open Source, Innovation, Green IT and eTourism.

He is currently President of the Spanish Technology Platform INES (National Initiative for Software & Services - [www.ines.org.es](http://www.ines.org.es)) and Vice-Chair of the Steering Committee of the European Technology Platform NESSI (Networked European Software & Services Initiative - [www.nessi-europe.com](http://www.nessi-europe.com)). He has participated in many European R&D Projects in FP7, FP6 and FP5, primarily as Project Coordinator (SOA4All, BEinGRID, TrustCoM, CHALLENGERS, ELEGI, CROSSWORK, AESSGRID, COREGRID, INFRAWEB, IMMEDIATE, VIP-DATA, GRASP, DISRUPT-IT, PROMINENCE, METACAMPUS REAL, METACAMPUS, AMIES, OPTIM, SMARTMAN, ?).

A representative example is the project BEinGRID Business Experiments in GRID; with 97 partners and 25M€ budget, is not only the European's Union largest integrated project funded in ICT in FP6, but the reference initiative in Europe to establish effective routes to foster the adoption of Grid technologies.



### Staffan Truvé

PhD, CEO, SICS

Ambient Sweden - an introduction

Staffan Truvé, computer scientist and entrepreneur with a background from Chalmers and MIT. Managing Director of SICS (Swedish Institute of Computer Science), chairman of the Interactive Institute, and Vice President of Swedish ICT Research. Member of the Swedish Royal

Academy of Engineering Sciences (IVA). Staffan got his PhD in 1992 in Computer Science at Chalmers and has since then worked on the border between research and commercialization. He is the co-founder of a number of high-tech companies, including Spotfire, Appgate, Pilotfish and Makewave. Staffan is chairman of the Ambient Sweden project, which is being run by IVA together with several Swedish companies, government agencies and organizations.

Speaker à rajouter Yaron Wolfsthal, IBM session NESSI General Assembly



### Yaron Wolfsthal

Senior Manager, IBM Haifa Laboratory

Session NESSI General Assembly

Dr. Yaron Wolfsthal is responsible for Systems Research at the IBM Haifa Laboratory in Israel, leading a department of 100 researchers working on strategic systems software projects in the areas of cloud computing, data storage and supporting tools. His missions include setting strate-

gic directions and initiating and leading research efforts in these areas. He is a Senior Member of IEEE and holds a BsC, MsC and PhD degrees in computer science, all from the Technion - Israel Institute of Technology. He has over 30 refereed publications and several patents. Dr. Wolfsthal is Vice Chair of the NESSI Board

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- Dr. **Alexander Lazovik**, University of Groningen, The Netherlands
- Mr. **Bruno LeDante**, INRIA, France
- Mr. **Philipp Leitner**, TU Wien, Austria
- Mr. **Alexander Lenk**, FZI Forschungszentrum Informatik, Germany
- Dr. **Joerg Leukel**, University of Hohenheim, Germany
- Mr. **Roman Levenshteyn**, Ericsson, Sweden
- Mr. **Lei Li**, Macquarie University, Australia
- Dr. **Ge Li**, Software Institute, School of Electronic Engineering and Computer Science, Peking University, China
- Ms. **Man-Sze Li**, IC Focus, United Kingdom
- Ms. **Haifeng Li**, Wuhan University, China
- Dr. **Donghui Lin**, National Institute of Information and Communications Technology (NICT), Japan,
- Dr. **Rikard Lingström**, KTH, Sweden
- Mr. **Alberto Lluch Lafuente**, Dipartimento di Informatica, Università di Pisa, Italy
- Ms. **Beatriz Lopez**, University of Girona, Spain
- Ms. **Irene Lopez de Vallejo**, Fundacion TEKNIKER, Spain

## ATTENDEES (ALPHABETICAL)

- Mr. **Nikolaos Loutas**, National University of Ireland, Galway - Digital Enterprise Research Institute, Ireland  
 Dr. **André Ludwig**, University of Leipzig, Gambia  
 Ms. **Karita Luokkanen-Rabetino**, Atos Origin, Spain  
 Mr. **Ayman Mahfouz**, Open University, United States  
 Mr. **Michele Mancioffi**, Tilburg University, The Netherlands  
 Dr. **Jason Mansell**, European Software Institute, Spain  
 Mr. **Lanfranco Marasso**, Engineering Ingegneria Informatica, Italy  
 Ms. **Anna Paola Marconi**, Fondazione Bruno Kessler, Italy  
 Ms. **Julie Margueritte**, Thales, France  
 Mr. **Josep Martrat Sotil**, Atos Origin, Spain  
 Mr. **Joan Masso**, Gridsystems, Spain  
 Dr. **Walter Mattauch**, Fraunhofer-Institut fuer Software- und Systemtechnik ISST, Germany  
 Dr. **Florian Matthes**, TU München, Germany  
 Dr. **Nikolay Mehandjiev**, Centre for Service Research, University of Manchester, United Kingdom  
 Mr. **Sjoerd Meihuizen**, Nederlandse Organisatie voor Wetenschappelijk Onderzoek, The Netherlands  
 Mr. **Alexandre Mello Ferreira**, Politecnico di Milano, Italy  
 Mr. **Andreas Metzger**, University of Duisburg-Essen, Germany  
 Mr. **András Micsik**, MTA SZTAKI, Hungary  
 Mr. **André Miede**, E-Finance Lab, Technische Universitaet Darmstadt, Germany  
 Dr. **Parastoo Mohagheghi**, SINTEF, Norway  
 Mr. **Knud Möller**, DERI, National University of Ireland, Galway, Ireland  
 Mr. **Hervé Moreau**, Thales, Belgium  
 Mr. **Adrian Mos**, INRIA, France  
 Dr. **Hamid Reza Motahari Nezhad**, HP Labs, USA, United States  
 Mr. **Carlos Müller**, University of Seville, Spain  
 Mr. **Juergen Mueller**, Hasso Plattner Institute, Germany  
 Mr. **Marcel Muth**, SAP Research, Germany  
 Mr. **Tobias Nestler**, SAP AG, Germany  
 Dr. **Stephan Neuhaus**, Università degli Studi di Trento, Italy  
 Mr. **Jörg Niemöller**, Ericsson GmbH, Germany  
 Mr. **Francisco Javier Nieto**, Atos Origin, Spain  
 Dr. **Alex Norta**, University of Helsinki, Finland  
 Mr. **Bruno NOUZILLE**, THALES, France  
 Mr. **Bashar Nuseibeh**, LERO University, Ireland  
 Mr. **Joseph Okika**, Aalborg University, Denmark  
 Mr. **Gøran K. Olsen**, Research Scientist, Norway  
 Mr. **Tomas Olsson**, Swedish Institute of Computer Science (SICS), Sweden  
 Mr. **Ulf I Olsson**, Ericsson, Sweden  
 Dr. **Daniel Oppenheim**, IBM, United States  
 Mr. **Marc Oriol Hilari**, Universitat Politècnica de Catalunya (UPC), Spain  
 Mr. **Kazuhiro Otsuki**, NICT, Japan  
 Mr. **Sergio Pacheco-Sanchez**, SAP (UK) Limited, United Kingdom  
 Prof. **Incheon Paik**, University of Aizu, Japan  
 Prof. **Mike Papazoglou**, Tilburg University, The Netherlands  
 Mr. **Davide Parrilli**, Legal researcher, Belgium  
 Mr. **Aljosa Pasic**, Atos Origin, Spain  
 Ms. **Liliana Pasquale**, Politecnico di Milano, Italy  
 Ms. **Susanne Patig**, University of Bern, IWI, Switzerland  
 Dr. **Valentin Pavlov**, Rila Solutions EAD, Bulgaria  
 Mr. **Daniel Pays**, Thales, France  
 Dr. **Christian Perez**, INRIA, France  
 Prof. **Barbara Pernici**, Politecnico di Milano, Italy  
 Ms. **Veronique Pevtschin**, Engineering Ingegneria Informatica, Belgium  
 Ms. **Barbara Pirillo**, Engineering Ingegneria Informatica, Italy  
 Mr. **Marco Pistore**, Fondazione Bruno Kessler, Italy  
 Mr. **Pierluigi Plebani**, POLITECNICO DI MILANO - DEI, Italy  
 Prof. **Klaus Pohl**, University of Duisburg-Essen, Germany  
 Mr. **Gregor Polancic**, Univerza Maribor, Slovenia  
 Mr. **Razvan Popescu**, Trinity College Dublin, Ireland  
 Dr. **Sébastien Praud**, Thales (MODELPLEX), France  
 Dr. **Thierry Priol**, INRIA, France  
 Mr. **Remi Raffard**, FT-Orange, France  
 Ms. **Maryam Razavian**, VU University Amsterdam, The Netherlands  
 Dr. **Stephan Reiff-Marganiec**, University of Leicester, United Kingdom  
 Dr. **Manuel Resinas**, Universidad de Sevilla, Spain  
 Mr. **James Rhodes**, IBM, United States  
 Mr. **Marcel Risch**, Seoul National University, Germany  
 Mr. **Erik Rissanen**, Axiomatics AB, Sweden  
 Mr. **Santi Ristol**, Atos Origin, Spain  
 Dr. **Nelson Rosa**, CIN/UFPE, Brazil  
 Ms. **Anne-Marie Sassen**, European Commission, Belgium  
 Ms. **Marten Schoenherr**, Deutsche Telekom Laboratories, Germany  
 Dr. **Arjen Schoneveld**, Dexels BV, The Netherlands  
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 Dr. **Michael Schwind**, Goethe University Frankfurt, Germany  
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 Prof. **Katarina Stanoevska-Slabeva**, MCM University of St. Gallen, Switzerland  
 Mr. **Ulrike Steffens**, OFFIS - Institut für Informatik, Germany  
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 Mr. **Guillaume Vaudaux-Ruth**, INRIA, France  
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 Dr. **Rainer von Ammon**, CITT, Germany  
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 Mr. **Ingo Wassink**, University of Twente, The Netherlands  
 Dr. **Walter Waterfeld**, Software AG, Germany  
 Prof. **Herbert Weber**, Fraunhofer-Institut fuer Software- und Systemtechnik ISST, Germany  
 Mr. **Harald Wesenberg**, ACM, IEEE, Norway  
 Mr. **Matthias Winkler**, SAP AG, Germany  
 Mr. **Ulrich Winkler**, SAP UK Ltd., United Kingdom  
 Prof. **Karsten Wolf**, Universitaet Rostock, Germany  
 Mr. **Yaron Wolfsthal**, IBM, Israel  
 Mr. **Daisaku Yokoyama**, University of Tokyo, Japan  
 Mr. **Anastasios Zafeiropoulos**, Network Engineer, Greece  
 Ms. **Sonja Zaplata**, University of Hamburg, Germany  
 Ms. **Asli Zengin**, Fondazione Bruno Kessler, Italy  
 Prof. **Liang Zhang**, Fudan University, China  
 Prof. **Weishan Zhang**, Aarhus University, Denmark  
 Mr. **Xin Zhang**, IBM Research, China  
 Dr. **Xuan Zhou**, CSIRO ICT Centre, Australia  
 Dr. **Christian Zirpins**, Karlsruhe Institute of Technology (KIT), Germany  
 Dr. **Andrea Zisman**, City University, United Kingdom  
 Mr. **Miroslav Zivkovic**, TNO, The Netherlands

## SOCIAL EVENT INFORMATION

### RECEPTION

Tuesday evening 24/11/2009

The reception will take place in the Golden Room at the Stockholm City Hall- the exact room where the coffee and dance take place after the Nobel prize ceremony.

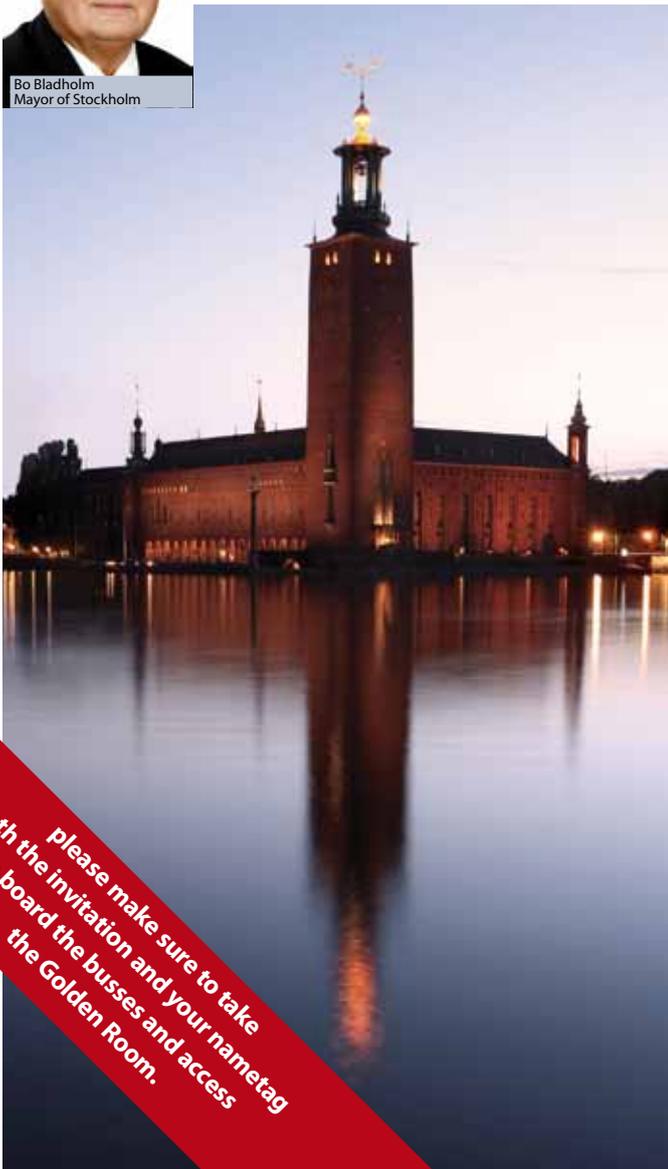
Busses will take you from the conference centre to the City Hall leaving at 18:30 pm. They will take you back to the same location at 21:00 pm.

The reception invitation is included in your conference fee, and your nametag indicates that you can have access

We thank the Mayor of Stockholm, Bo Bladholm, for hosting the conference reception in the "Golden Hall"



Bo Bladholm  
Mayor of Stockholm



*please make sure to take both the invitation and your nametag to board the busses and access the Golden Room.*

### GALA DINNER

Thursday 26/11/2009 – 20:00

The Gala Dinner will take place at the Vasa Museum, the prestigious museum that holds the world's only surviving 17th-century ship and one of the foremost tourist sights in the world.

The address for the Vasa Museum is:

**Galärvarvsvägen 14, Stockholm**

Conference buses between the conference venue and the Vasa Museum will take you to the Gala dinner and bring you back.

More info about how to get there:

[http://www.vasamuseet.se/sitecore/content/Vasamuseet/InEnglish/Visit/getting\\_here.aspx](http://www.vasamuseet.se/sitecore/content/Vasamuseet/InEnglish/Visit/getting_here.aspx)

*Don't forget to take your badge with you!!*

#### Gala Dinner menu

##### Starter

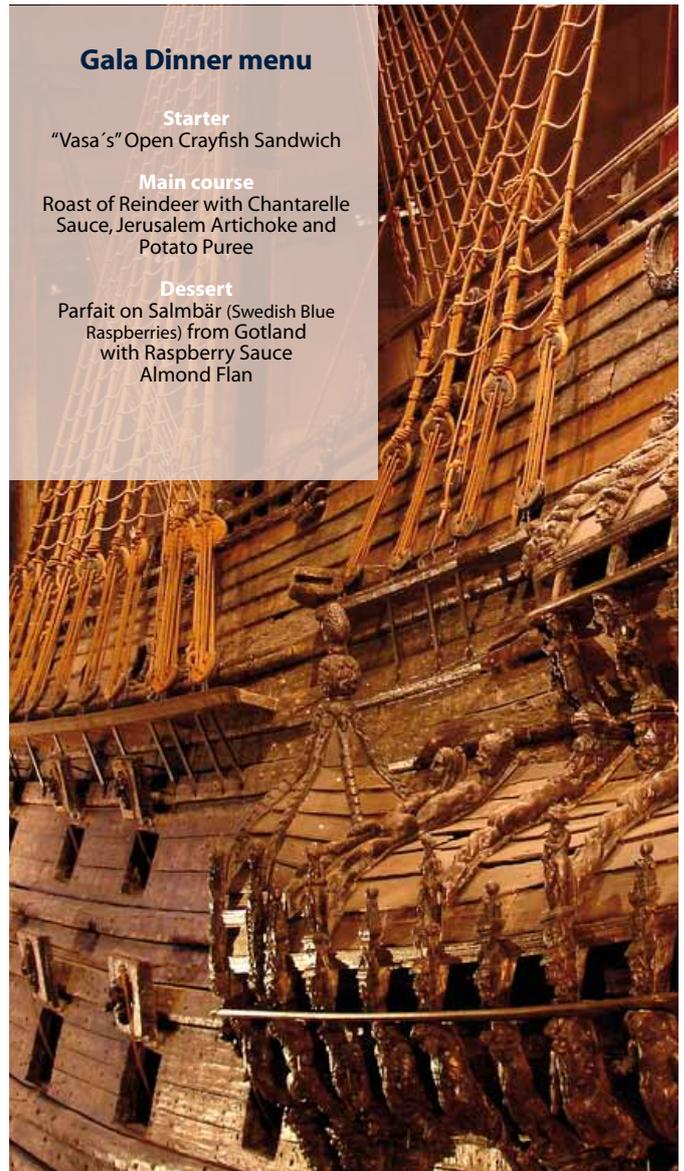
"Vasa's" Open Crayfish Sandwich

##### Main course

Roast of Reindeer with Chantarelle Sauce, Jerusalem Artichoke and Potato Puree

##### Dessert

Parfait on Salmbär (Swedish Blue Raspberries) from Gotland with Raspberry Sauce Almond Flan



## CONFERENCE LOCATION

ICSOC-ServiceWave 2009 will be held at the Electrum Conference centre, in the Kista Science City - a world leading ICT cluster for more than 500 ICT companies and 5,000 students

### Electrum Conference Centre

Kistagången 16, 164 40 Kista

- Main conference location
- Registrations
- Restaurant
- Coffee breaks
- Sponsors stands
- Bus departure (Tuesday and Thursday)



### Kista Science Tower

Färögatan, 33

- 25/11/2009 Workshop WESOA'09
- 25/11/2009 Workshop NFPSLAM-SOC 09
- 25/11/2009 Workshop MONA+ (first part)



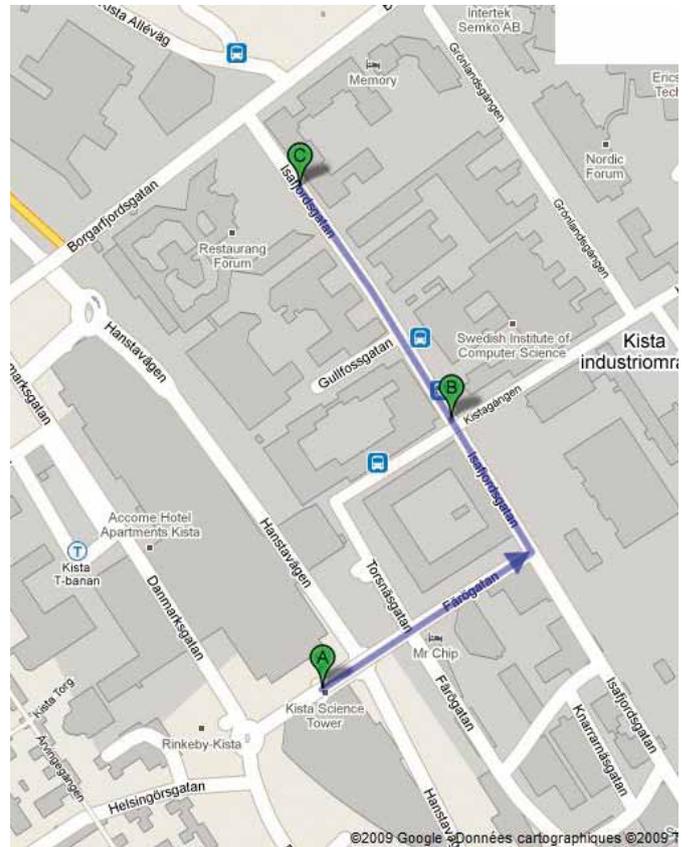
### KTH Kista Campus

Isafjordgatan, 39

- 25/11/2009 Workshop Identity Management
- 26/11/2009 Workshop MONA+ (second part)
- 26/11/2009 Workshop SOC-LOG



On Monday and Tuesday, workshops will be held in the Electrum Conference Centre, in the KTH Kista Campus and in the Kista Science Tower. All are within walking distance.



### Registration Desk

All registration is done at the conference location Electrum Conference Centre. Attendees of the workshops held at the other locations must first get their registration bag from the registration desk.

The registration desk will be open from 8:30 am to 16:00 pm on Monday, and 9:00 am to 16:00 pm, Tuesday through Thursday.

### Badges

Participants will receive a badge upon registration, and are requested to wear the badge during the meetings and social events. The badge contains all the information regarding access to the reception and gala dinner.

### Transportation Stockholm City – Kista

Kista can be reached from the central station/T-centralen by metro: Blue Line, direction Akalla, station Kista. A metro journey to Kista takes 17 minutes from T-centralen. During peak times, metro trains run every seven minutes.

### Bus transportation for the Reception and the Gala dinner

Bus transportation is organised from the conference location to the reception and to the gala dinner. Return transportation by bus is also organised. Please check the main schedule for transportation hours, and don't forget to take your badge with you.

## WIFI INFO

Wifi access: SSID = Electrum.

Username and Password will be in the Conference Bag

## LOCAL CONTACTS

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