

Fourth International Conference on COMmunication System software and middlewaRE (COMSWARE)

16th – 19th June 2009, Trinity College Dublin, Ireland

Programme

Venue: Hamilton Conference Centre

Getting to Trinity: <http://www.comsware.org/maps.shtml>
 Getting to the Hamilton Building: <http://www.tcd.ie/Maps/map.php>
 Getting to the Legends Bar: http://www.legends.ie/ENG/static_html/l_find.htm
 Rooms: Maxwell, LB 1.07, LB 1.20

	Tuesday 16th June	Wednesday 17th June	Thursday 18th June	Friday 19th June
8:30-12:00	Registration: Hamilton Conference Centre			
09:00	CAMS & WMUPS Maxwell	Opening Ceremony		Tutorial: Composition-Oriented Software Engineering LB 1.20
9:15		Keynote 1: Prof. Manfred Hauswirth Maxwell	Keynote 2: Prof. Kaisa Väänänen- Vainio-Mattila Maxwell	
Morning	10:30 Morning coffee break (Hamilton concourse)			
11:00	CAMS Maxwell	WMUPS LB 1.07	Session 1: Routing and Information Discovery Maxwell	Session 4: Mobile Devices Maxwell
	12:30 Lunch (Java City Vaults)			
14:00	CAMS & WMUPS Maxwell	Session 2: Industry Track Maxwell	Session 5: Pervasive Computing Maxwell	Tutorial: Composition-Oriented Software Engineering LB 1.20
Afternoon	15:30 Afternoon coffee break (Hamilton concourse)			
16:00	CAMS Maxwell	WMUPS LB 1.07	Session 3: Communication Protocols and Security Maxwell	Session 6: Service- Oriented Computing Maxwell
17:30 17:40 17:50				
Evening	19:00 Conference Dinner Legends Bar			
23:00				

Workshop Programme - CAMS

Tuesday 16th June

09:00-10:30	Session 1: Ubiquitous and Context-aware Applications Session chair: Stefano Chessa Martin Mladenov and Michael Mock. A Step Counter Service for Java-Enabled Devices Using a Built-In Accelerometer Ahmed Echtibi, Mohamed Jamal Zemerly and Jawad Berri. Murshid: A Mobile Tourist Companion Luca Longo and Stephen Barrett. A Context-Aware Approach Based on Self-organizing Maps to Study Web-Users' Tendencies From their Behaviour
10:30-11:00	Coffee Break
11:00-12:30	Session 2: Context-aware Programming Models Session chair: Mélanie Bourouche Eleanor O'Neill, Kris McGlinn, Eoin Bailey, Simon Dobson and Kevin McCartney. Application Development using Modeling and Dynamical Systems Analysis Yaseen Khattak and Stephen Barrett. Primitive Components: Towards More Flexible AOP Paul Laird and Stephen Barrett. Towards Context Sensitive Domain Specific Languages
12:30-14:00	Lunch Break
14:00-15:30	Session 3: Context-aware Sensor Networks Session chair: Anurag Garg Michele Albano and Stefano Chessa. Publish/subscribe in Wireless Sensor Networks based on Data Centric Storage Amirhosein Taherkordi, Romain Rouvoy, Quan Le-Trung and Frank Eliassen. Supporting Lightweight Adaptations in Context-aware Wireless Sensor Networks Warren Kenny and Stefan Weber. Apsalar - Ad-hoc Protocol for Service-Aligned Location-Aware Routing
15:30-16:00	Coffee Break
16:00-17:30	Session 4: Intelligent Services and Middleware Session chair: Michael Mock Mong Leng Sin, Mélanie Bourouche and Vinny Cahill. A Service Oriented Architecture for Intelligent Vehicles Research & Development Derek Fagan and René Meier. Using Context and Behavioral Patterns for Intelligent Traffic Management Martin Däumler and Dirk Müller. A Programming Abstraction for Motion-aware Applications running on Distributed Systems of Mobile Components

Workshop Programme - WMUPS

Tuesday 16th June

09:00-10:30	Session 1: Ubiquitous and Context-aware Applications Martin Mladenov and Michael Mock. A Step Counter Service for Java-Enabled Devices Using a Built-In Accelerometer Ahmed Echtibi, Mohamed Jamal Zemerly and Jawad Berri. Murshid: A Mobile Tourist Companion Luca Longo and Stephen Barrett. A Context-Aware Approach Based on Self-organizing Maps to Study Web-Users' Tendencies From their Behaviour
10:30-11:00	Coffee Break
11:00-12:30	Session 2: Middleware for Pervasive Systems Frederico Lopes, Flavia C. Delicato, Thais Batista, Paulo F. Pires. Context-based Heterogeneous Middleware Integration Moeiz Miraoui, Chakib Tadj, Chokri ben Amar. Modeling and Simulation of a Multiagent Service Oriented Architecture for Pervasive Computing Systems Giuliano Ferreira, Iara Augustin, Giovani Librelotto. Middleware for Management of End user Programming of Clinical Activities in a Pervasive Environment
12:30-14:00	Lunch Break
14:00-15:30	Session 3: Context-aware Sensor Networks Michele Albano and Stefano Chessa. Publish/subscribe in Wireless Sensor Networks based on Data Centric Storage Amirhosein Taherkordi, Romain Rouvoy, Quan Le-Trung and Frank Eliassen. Supporting Lightweight Adaptations in Context-aware Wireless Sensor Networks Warren Kenny and Stefan Weber. Apsalar - Ad-hoc Protocol for Service-Aligned Location-Aware Routing
15:30-16:00	Coffee Break
16:00-17:30	Session 4: Middleware for Wireless Sensor Networks Atslands R. da Rocha, Flávia C. Delicato, José Neuman de Souza, Danielo G. Gomes, Luci Pirmez. A Semantic Middleware for Autonomic Wireless Sensor Networks Discussion

Keynote Speaker

Wednesday 17th June



Professor Manfred Hauswirth

Vice-Director: Digital Enterprise Research Institute (DERI), Galway, Ireland
Professor at the National University of Ireland, Galway (NUIG)

Title: Enabling Networked Knowledge

Abstract:

Despite the enormous amounts of information the Web has made accessible, we still lack means to interconnect and link this information in a meaningful way to lift it from the level of information to the level of knowledge. Additionally, new sources of information about the physical world become available through the emerging sensor technologies. This information needs to be integrated with the existing information on the Web and in information systems which requires (light-weight) semantics as a core building block. This talk will discuss the potential of a global knowledge space and which research and technologies are required to enable the vision of networked knowledge.

Biography:

Manfred Hauswirth is Vice-Director of the Digital Enterprise Research Institute (DERI), Galway, Ireland and professor at the National University of Ireland, Galway (NUIG). He holds an M.S. (1994) and a Ph.D. (1999) in computer science from the Technical University of Vienna. His main research interests are on semantic sensor networks, sensor networks middleware, large-scale semantics-enabled distributed information systems and applications, peer-to-peer systems, Internet of things, self-organization and self-management, Semantic Web services, and distributed systems security. He has published over 100 papers in these domains, he has co-authored a book on distributed software architectures and several book chapters on P2P data management and semantics. Manfred has served in over 150 program committees of international scientific conferences and was program co-chair of the Seventh IEEE International Conference on Peer-to-Peer Computing in 2007 and general chair of the Fifth European Semantic Web Conference in 2008. He is a member of IEEE and ACM and is on the board of WISEN, the Irish Wireless Sensors Enterprise Led Network, and the scientific board of the Corporate Semantic Web research center at FU Berlin.

Keynote Speaker

Thursday 18th June



Professor Kaisa Väänänen-Vainio-Mattila

Human-Centered Technology (IHTE),
Tampere University of Technology, Finland

Title: User experience of mobile and ubiquitous services: How to build in the user value?

Abstract: Mobile services are increasingly offered as enablers to people's everyday lives. Still, users often face severe problems in finding, accessing and using the services. Advanced mobile services may simply be too complex to use, or the potential users may not even see the value of the mobile solution offered to them. Users can benefit from technical solutions on various levels: They need to complete a useful set of tasks effectively, but they also need to have positive emotional experiences while using the system. Even though user interface plays a significant role in providing high-quality user experience (UX), good UX design is rooted in the early phases of system design – starting from the very basic choices of functionality and end-to-end system characteristics. With mobile and ubiquitous services, the potential for good UX is immense: Users can have immersive social connectedness, participate in multimodal content creation, and complete their tasks smoothly while moving around and accessing the contextually adaptive services. This talk will address the technological enablers of the modern mobile services from the perspective of human-centered design and propose opportunities for future UX design through user-driven innovation, agile user involvement, and value-based design. The talk will also set the scene for future UX design challenges in ubicomp, social media, cloud, and mixed reality services.

Biography: Kaisa Väänänen-Vainio-Mattila is a full professor of usability in Tampere University of Technology, department of Software Systems, where she's leading the unit of Human-Centered Technology. Kaisa has over 15 years experience in human-centered design, both in university and industry, including 10 years with Nokia Inc. Kaisa's research interests cover user experience and user-centered design methods in product development, with emphasis on design and evaluation of mobile communication products and services. Kaisa has Master of Science degrees from Helsinki University of Technology (software engineering) and University of London (Human-Computer Interaction), and a doctoral degree in computer science (multimedia information systems) from Technical University of Darmstadt. Currently Kaisa is also a part-time visiting professor at Nokia Research Center, focusing on user experience of mobile and mixed reality services.

Technical Programme

Wednesday 17th June

9:00 - 9:15	COMSWARE Opening Ceremony
	Keynote Speech Professor Manfred Hauswirth, DERI: The Digital Enterprise Research Institute, National University of Ireland (NUIG)
9:15-10:30	
10:30-11:00	Coffee Break
11:00-12:30	Session 1: Routing and Information Discovery Faraz Memon, Daniel Tiebler, Frank Duerr, Kurt Rothermel, Marco Tomsu and Peter Domschitz. Scalable Spatial Information Discovery over Distributed Hash Tables Hyunsang Choi, Heejo Lee and Hyogon Kim. BotGAD: Detecting Botnets by Capturing Group Activities in Network Traffic Sumathi R. QoS aware Routing for End-to-End Reliability of Delay Sensitive Events in Wireless Sensor Networks
12:30-14:00	Lunch Break
14:00-15:30	Session 2: Industry Track Luis Garcés-Erice, Daniel Bauer and Paolo Scotton. A Flexible and Scalable Message Broker for Sensor Network Integration Siani Pearson and Miranda Mowbray. A Client-Based Privacy Manager for Cloud Computing Gavin Churcher and Jeff Foley. Applying and Extending Sensor Web Enablement to a Sensor Network Architecture
15:30-16:00	Coffee Break
16:00-17:40	Session 3: Communication Protocols and Security Pedro Garcia Lopez. Topology-Aware Group Communication Middleware for MANETs Joann J. Ordille, Patrick Tendick and Qian Yang. Publish-Subscribe Services for Urgent and Emergency Response Bilhanan Silverajan and Jarmo Harju. Developing Network Software and Communications Protocols Towards the Internet of Things (<i>Position Paper: 20 mins</i>) Juhani Latvakoski. Secure M2M Service Space in Residential Home (<i>Position Paper: 20 mins</i>)

Technical Programme

Thursday 18th June

Keynote Speech Professor Kaisa Väänänen-Vainio-Mattila, Tampere University of Technology, Finland	
9:15-10:30	
Coffee Break	
10:30-11:00	
11:00-12:30	Session 4: Mobile Devices Ana B. Lago and Iker Larizgoitia. An application-aware approach to efficient power management in Mobile Devices Jó Ueyama, Vitor P. L. Pinto, Edmundo R. M. Madeira, Paul Grace, Thienne M. M. Jonhson and Raphael Y. Camargo. Exploiting a Generic Approach for Constructing Mobile Device Applications Yu Xiao, Ramya Sri Kalyanaraman and Antti Ylä-Jääski. Middleware for Energy-awareness in Mobile Devices
Lunch Break	
12:30-14:00	
14:00-15:30	Session 5: Pervasive Computing Deirdre Lee and Rene Meier. A Hybrid Approach to Context Modeling in Large-Scale Pervasive Computing Environments Holger Schmidt, Jan-Patrick Elsholz, Vladimir Nikolov, Franz J. Hauck and Ruediger Kapitza. OSGi4C: Enabling OSGi for the Cloud Cosmin Arad, Jim Dowling and Seif Haridi. Developing, Simulating, and Deploying Peer-to-Peer Systems using the Kompics Component Model
Coffee Break	
15:30-16:00	
16:00-17:50	Session 6: Service-Oriented Computing Were Oyomno, Pekka Jäppinen and Esa Kerttula. Privacy Implications in Context-Aware Services Constantin Timm, Jens Schmutzler, Peter Marwedel and Christian Wietfeld. Dynamic Web Service Orchestration applied to the Device Profile for Web Services in Hierarchical Networks Fermin Galan, Americo Sampaio, Luis Rodero-Merino, Irit Loy, Victor Gil, Luis M. Vaquero and Mark Wusthoff. Service Specification in Cloud Environments Based on Extensions to Open Standards Arto Hämäläinen, Pekka Jäppinen and Jari Porras. Service Characteristics for Service Selection (<i>Position Paper: 20 mins</i>)

Conference Dinner

Wednesday 17th June

Legends Bar
Arlington Hotel
16-18 Lord Edward Street,
Dublin 2.
(Opposite Dublin Castle, Temple Bar)

