

## List peer-reviewed conference papers 2012

\*) Co-publication academy - industry

Authors	Title of paper	Name of conference	Location of conference	Year
Antonios Pitarokoulis, Saif Khan Mohammed, Erik G. Larsson	Effect of Oscillator Phase Noise on Uplink Performance of Large MU-MIMO Systems	Proceedings of the 50th Annual Allerton Conference on Communication, Control, and Computing,	Monticello, Illinois	2012
Frédéric Gabry, Nan Li, Nicolas Schrammar, Maksym Girnyk, Eleftherios Karipidis, Ragnar Thobaben, Lars K. Rasmussen, Erik G. Larsson, Mikael Skoglund	Secure Broadcasting in Cooperative Cognitive Radio Networks	Proceedings of the Future Network and Mobile Summit Conference	Berlin, Germany	2012
Hien Quoc Ngo, Erik G. Larsson	EVD-based Channel Estimations for Multicell Multiuser MIMO with Very Large Antenna Arrays	Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)	Kyoto, Japan	2012
Johannes Lindblom, Erik G. Larsson	Does Non-Orthogonal Spectrum Sharing in the same Cell Improve the Sum-Rate of Wireless Operators?	Proceedings of the 13th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)	Cesme, Turkey	2012
L. Marconi, C. Melchiorri, M. Beetz, D. Pangercic, R. Siegart, S. Leutenegger, R. Carloni, S. Stramigioli, H. Bruyninckx, Patrick Doherty, Alexander Kleiner, V. Lippiello, A. Finzi, B. Siciliano, A. Sala, N. Tomatis	The SHERPA project: Smart collaboration between humans and ground-aerial robots for improving rescuing activities in alpine environments	Proc. of the IEEE Int. Workshop on Safety, Security and Rescue Robotics (SSRR)	College Station, TX, United States	2012
Mirsad Ćirkić, Erik G. Larsson	Near-Optimal Soft-Output Fixed-Complexity MIMO Detection via Subspace Marginalization and Interference Suppression	IEEE International Conference on Acoustics, Speech and Signal Processing	Kyoto, Japan	2012
Reza Moosavi, Erik G. Larsson	Fast Identification of Control Signaling Aided by Please-Decode-Blindly (PDB) Messages	IEEE Swedish Communication Technologies Workshop (Swe-CTW)	Lund, Sweden	2012
Saif Khan Mohammed, Erik G. Larsson	Constant Envelope Precoding for Power-Efficient Downlink Wireless Communication in Multi-User MIMO Systems Using Large Antenna Arrays	IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP' 2012)	Kyoto, Japan	2012
Saif Khan Mohammed, Erik G. Larsson	Power-Efficient Downlink Communication Using Large Antenna Arrays: The Doughnut Channel	IEEE International Conference on Communications (ICC)	Ottawa, Canada	2012
Ariyan Fazlollahi, Ulrik Franke, Johan Ullberg	Benefits of Enterprise Integration: Review, Classification, and Suggestions for Future Research	IWEI 2012	Harbin China	2012
E. Emilsson, J. Rydell	Sensor fusion for improved indoor navigation	SPIE Defence, Security and Sensing	Baltimore, MD, USA	2012
Fredrik Johansson, Joel Brynielsson, Maribel Narganes Quijano	Estimating Citizen Alertness in Crises using Social Media Monitoring and Analysis	EISIC 2012	Odense	2012
Hirad Asadi, Christian Mårtenson, Magnus Sköld, Pontus Svenson	The HITS/ISAC Social Network Analysis Tool	OSINT-WM 2012	Odense	2012
Joel Brynielsson, Andreas Horndahl, Fredrik Johansson, Lisa Kaati, Christian Mårtenson, Pontus Svenson	Analysis of weak signals for detecting lone wolf terrorists	EISIC 2012	Odense	2012
Johan Dahlin, Fredrik Johansson, Lisa Kaati, Christian Mårtenson, Pontus Svenson	Combining Entity Matching Techniques for Detecting Extremist Behavior on Discussion Boards	FOSINT 2012	Istanbul	2012
M Andersson, J Rydell, L St-Laurent, D Prevost, F Gustafsson	Crowd analysis with target tracking, K-means clustering and hidden Markov models	Information Fusion (FUSION), 2012 15th International Conference on	Singapore	2012
M Sydatk, E Sviestins, F Gustafsson	Expectation maximization algorithm for calibration of ground sensor networks using a road constrained particle filter	Information Fusion (FUSION), 2012 15th International Conference on	Singapore	2012
Magnus Jändel, Pontus Svenson, Niclas Wadströmer	Online learnability of statistical relational learning in anomaly detection	Fusion 2012	Singapore	2012
Martin Holmberg, Pontus Svenson	Lessons identified from the use of automated information fusion in collaborative environments	CogSIMA	New Orleans	2012
MB Guldogan, D Lindgren, F Gustafsson, H Habberstad, U Orguner	Multiple target tracking with Gaussian mixture PHD filter using passive acoustic Doppler-only measurements	Information Fusion (FUSION), 2012 15th International Conference on	Singapore	2012
MB Guldogan, U Orguner, F Gustafsson	Gaussian mixture PHD filter for multi-target tracking using passive Doppler-only measurements	Data Fusion & Target Tracking Conference (DF&TT 2012)	London, United Kingdom	2012
Mehmet B. Guldogan, David Lindgren, Fredrik Gustafsson, Hans Habberstad, Umut Orguner	Multiple Target Tracking with Gaussian Mixture PHD Filter using Passive Acoustic Doppler-Only Measurements	FUSION	Singapore	2012 *)
Mika Cohen, Andreas Horndahl, Christian Mårtenson	First steps towards a context aware ontology-driven reporting system	I-SEMANTICS 2012	Graz	2012
P Skoglar, D Tornqvist	Simultaneous camera orientation estimation and road target tracking	Information Fusion (FUSION), 2012 15th International Conference on	Singapore	2012
Pilemalm, S., Stenberg, R and Anderson Granberg, T	Emergency response in rural areas - how new ways of organizing and supporting first responders can apply to crisis management	Proceedings of the 2012 Information Systems for Crisis Response and Management (ISCRAM) conference	Vancouver, Canada	2012
Rydell, J., Emilsson, E.	CHAMELEON: Visual-inertial Indoor Navigation	IEEE/ION PLANS 2012	Myrtle Beach, South Carolina	2012
Tove Gustavi, Pontus Svenson	Pattern theory in Intelligence Analysis	EISIC 2012	Odense	2012
A.P.F. Turner	Biosensors: Sense and Sensibility	Royal Society of Chemistry, Theophilus Redwood Medal and Award Lectures presented at First National Conference on Sensors	Rome 15-17 February, 2012; Dublin City University, Ireland; Bath University, UK and Imperial College, UK, 20-24 February	2012
A.P.F. Turner	Nanosensors: a bottom-up approach to integrated biosensor design	Nanoscale Science and Technology	Hammamet, Tunisia	2012
A.P.F. Turner	Biosensors as consumer products to support personal well being, ambient assisted living and early disease diagnosis	The 22nd Anniversary World congress on Biosensors: Biosensors 2012	Cancun, Mexico	2012
Eva Blomqvist, Seil Sepour Azamm, Valentina Presutti	Ontology Testing - Methodology and Tool	18th International Conference on Knowledge Engineering and Knowledge Management	Galway City, Ireland	2012
Kovordanyi, Rita , Pelfrene, Jelle, Rankin, Amy , Schreiner, Rudolf, Jenvald, Johan, Morin, Magnus, Eriksson, Henrik,	Real-time Support for Exercise Managers' Situation Assessment and Decision Making	9th International Conference on Information Systems for Crisis Response Management	Vancouver, Canada	2012

Amy Rankin, Joris Field, Rita Kovordanyi, Henrik Eriksson	Instructor's Tasks in Crisis Management Training	9th International Conference on Information Systems for Crisis Response Management	Vancouver, Canada	2012
Amer Nezirovic, Robert Malmqvist, Tomas Boman, Andreas Gustafsson, Mikael Karlsson	Performance Assessment of RF-MEMS-based Passive ESA for Fully-Polarimetric Ka-band SAR.	EuMW 2012	Amsterdam, The Netherlands	2012
Andreas Gustafsson, Amer Nezirovic, Robert Malmqvist, Aziz Ouacha, Per-Olov Fröling, Ronny Gunnarsson, f d FOI, Jan Svedin, Lars-Gunnar Huss	Recent Progress in Phased Array Radar at FOI.	EuMW 2012	Amsterdam, The Netherlands	2012
Andreas Gustafsson, Per-Olov Fröling, Patrick Andersson, Jan Svedin, Lars Pettersson	Sparse Phased Array Antenna Architectures for 3D-SAR Applications.	EuMW 2012	Amsterdam, The Netherlands	2012
Erika Emilsson, Joakim Rydell	Sensor fusion for improved indoor navigation.	SPIE	Baltimore, Maryland, USA	2012
Fredrik Näsström, Andreas Persson, David Bergström, Jimmy Berggren, Johan Hedström, Jonas Allvar, Mikael Karlsson	High fidelity simulations of infrared imagery with animated characters	SPIE	Baltimore, Maryland, USA	2012
Gustav Tolt, Tomas Chevalier, Philip Engström, Christina Grönwall	Applications of 3D occupancy grids in a target analysis context.	SPIE	Baltimore, Maryland, USA	2012
Ingmar Renhorn, Maria Axelsson, Ola Friman, Koen Benoist, Dirk Bourghys, Yannick Boucher, Xavier Briottet, Sergio De Ceglie, Rob Dekker, Alwin Dimmeler, Remco Dost, Ingebjörg Käsen, Jochen Maerker, Mark van Persie, Salvatore Resta, Piet Schwing, Michal Shimoni, Trym Vegard Haavardsholm	Detection in urban scenario combined airborne imaging sensors.	SPIE	Baltimore, Maryland, USA	2012
Maria Axelsson, Mikael Karlsson, Staffan Rudner	Automatic multi-camera calibration for deployable positioning systems.	SPIE	Baltimore, Maryland, USA	2012
Tommy Johansson, Ain Sume, Jonas Rahm, Stefan Nilsson, Anders Örbom	Evaluation of polarimetric through-the-wall radar measurements.	SPIE	Baltimore, Maryland, USA	2012
Joel Brynielsson, Henrik Artman, Muhammad Adnan Tariq	Storytelling for Tackling Organized Cybercrime.	26th BCS Conference on Human Computer Interaction	Birmingham, UK	2012
Markus Henriksson, Tomas Olofsson, Christina Grönwall, Carl Brännlund, Lars Sjöqvist	Optical reflectance tomography using TCSPC laser radar.	SPIE	Edinburgh, UK	2012
Robert Malmqvist, Carl Samuelsson, Andreas Gustafsson, Hassan Maher, Tauno Vähä-Heikkilä, Rens Baggen	A K-band single-chip reconfigurable/Multi-functional RF-MEMS switched dual-LNA MMIC.	MTT 2012	Montreal, Canada	2012
Anders Gustavsson, Lars Ulander, Björn Flood, Per-Olov Fröling, Tommy Jonsson, Björn Larsson, Daniel Murdin, Rolf Ragnarsson, Johan Rasmusson, Gunnar Stenström	Low frequency bistatic SAR measurements.	IGARSS 2012	Munich, Germany	2012
G. Sanberg, Lars Ulander, J. E. S. Fransson, M. J. Soja,	Measurements of forest change using P-band SAR backscatter.	IGARSS 2012	Munich, Germany	2012
Lars Ulander, Per-Olov Fröling, Anders Gustavsson, Gunnar Stenström	Bistatic P-band SAR signatures of forests and vehicles.	IGARSS 2012	Munich, Germany	2012
Paco Lopez-Dekker, José A. Garcia, Francesco De Zan, Thomas Börner, Marwin Younis, Kostas Papathanassiou, Tomás Guardabrazo, Valerie Bourlon, Sophie Ramongassie, Nicolas Taveneau, Lars Ulander, Daniel Murdin, Neil Rogers, Shaun Quegan, Raffaella Franco	BIOMASS end-to-end mission performance assessment.	IGARSS 2012	Munich, Germany	*)
Per-Olov Fröling, Lars Ulander, Anders Gustavsson, Gunnar Stenström	VHF/UHF-band SAR imaging using circular tracks.	IGARSS 2012	Munich, Germany	
Shaun Quegan, Jerome Chave, Lars Ulander, Jorgen Dall, Thuy Le Toan, Kostas Papathanassiou, Fabio Rocca, Sassan Saatchi, Klaus Scipal, Hank Schugart, Mathew Williams	The science and measurement concepts underlying the BIOMASS mission.	IGARSS 2012	Munich, Germany	2012
Thuy Le Toan, Lars Ulander, Kostas Papathanassiou, Fabio Rocca, Shaun Quegan, Malcolm Davidson	The BIOMASS mission retrieval algorithms: Results from recent campaigns.	IGARSS 2012	Munich, Germany	2012
Joakim Rydell, Erika Emilsson	Chameleon: visual-inertial indoor navigation.	PLANS	Myrtle Beach, SC	2012
Jouni Rantakokko, Erika Emilsson, Peter Strömbäck, Joakim Rydell	Scenario-based evaluations of high-accuracy personal positioning systems.	PLANS	Myrtle Beach, SC	2012
Mika Cohen, Andreas Horndahl, Christian Mårtenson	First steps towards a context aware ontology-driven reporting system.	SEMANTICS '12	New York, USA	2012
Xavier Dupuis, Pascale Dubois-Fernandez, Lars Ulander, Anders Gustavsson	3 years gap temporal interferometric coherence at P band	EUSAR 2012	Nuremberg, Germany	2012
Fredrik Johansson, Joel Brynielsson, Maribel Narganes Quijano	Estimating Citizen Alertness in Crises using Social Media Monitoring and Analysis.	EISIC 2012	Odense, Denmark	2012
Hirad Asadi, Christian Mårtenson, Pontus Svenson, Magnus Sköld	The HITS/ISAC Social Network Analysis Tool.	EISIC 2012	Odense, Denmark	2012
Joel Brynielsson, Andreas Horndahl, Fredrik Johansson, Lisa Kaati, Christian Mårtenson, Pontus Svenson	Analysis of Weak Signals for Detecting Lone Wolf Terrorists.	EISIC 2012	Odense, Denmark	2012
Joel Brynielsson, Henrik Artman, Muhammad Adnan Tariq	Framing the Attacker in organized Cybercrime.	EISIC 2012	Odense, Denmark	2012
Lisa Kaati, Ala Berzinji, Ahmed Rezine	Detecting key players in terrorist networks.	EISIC 2012	Odense, Denmark	2012
Jan Nilsson, Ulf Sterner	Robust MPR-based flooding in mobile Ad-hoc networks.	MILCOM	Orlando, USA	2012
Sara Linder, Karina Fors, Kia Wiklundh, Peter Stenumgaard	Intersystem Interference Model for Frequency Hopping Systems.	EMC Europé	Rome, Italy	2012
Robert Malmqvist, Carl Samuelsson, D Dancila, S Reyaz, M Kaynak, A Rydberg	Design and test results of a wideband sig detector and on-chip slot antenna for W-band sensing applications.	CAS 2012	Sinaia	2012
Lisa Kaati, Björklund Johanna, Jönsson Eric	Aspects of plan operators in a tree automata framework.	FUSION 2012	Singapore	2012
Magnus Jändel, Pontus Svenson, Niclas Wadströmer	Online Learnability of Statistical Relational Learning in Anomaly Detection.	FUSION 2012	Singapore	2012
Jouni Rantakokko, Peter Strömbäck, Erika Emilsson, Joakim Rydell	Soldier positioning in GNSS-denied operations.	Symposium SET-168 on Navigation Sensors and Systems in GNSS Denied Environments	Turkey	2012
Dennis Andersson, Amy Rankin, LiU	Sharing mission experience in tactical organisations.	ISCRAM 2012	Vancouver, Canada	2012
Susanna Nilsson, Joel Brynielsson, Magdalena Granåsen, Charlotte Hellgren, Sinna Lindquist, Mikael Lundin, Maribel Narganes Quijano, Jiri Trnka	Making use of New Media for pan-European Crisis Communication.	ISCRAM 2012	Vancouver, Canada	2012
Robert Malmqvist, Carl Samuelsson, Andreas Gustafsson, S Reyaz, A Rydberg	A V-band RF-MEMS and RF microsystems (MEMSWAVE2012)	MEMSWAVE 2012	Antalya, Turkey	
Lars Ulander, B Flood, Per-Olov Fröling, Anders Gustavsson, Tomas Jonsson, Björn Larsson, Gunnar Stenström, Rolf Ragnarsson, B Raque, O Ruault Du Plessis, G Bonin, H Oriot, P Dreuillet	Bistatic VHF/UHF-band airborne SAR experiment	International Conference on Radar 2012	Glasgow	2012
Jimmi Grönkvist, Jimmy Karlsson, Ulf Sterner, Jan Nilsson, Anders Hansson	Adaptation delay and its impact on application performance for TDMA ad hoc networks.	Med-Hoc_Net	Ayia Napa, Cyprus	2012
Joakim Rydell, Erika Emilsson	Chameleon vs. Centipede: two systems for indoor navigation.	PLANS	Myrtle Beach, SC	2012
Rolf Ragnarsson, Tommy Jonsson, Björn Larsson, Gunnar Stenström, Lars Ulander	Combined sensor system for small vessel detection and tracking for maritime domain awareness.	RVK 2012	Stockholm, Sweden	
Johan Dahlin, Fredrik Johansson, Lisa Kaati, Christian Mårtenson, Pontus Svenson	Combining Entity Matching Techniques for Detecting Extremist Behavior on Discussion Boards.	FOSINT	Istanbul, Turkey	2012

Ove Steinvall, Magnus Elmqvist, Björn Larsson, Rolf Ragnarsson	Detection and classification of small surface targets with laser techniques.	Maritime Systems and Technologist	Malmö		
Hans Hellsten, J Torgrimsson, P Dammert, Lars Ulander, A Åhlander	Evaluation of a geometrical autofocus algorithm within the framework of fast facotrized back-projection.	Internatonal Conference on Radar 2012	Glasgow	2012	*)
Jörgen Karlholm, Andreas Persson	Infrared target recognition performance prediction.	SSBA	Stockholm, Sweden	2012	
Lars Ulander, Gustaf Sandberg, Maciej J. Soja	Biomass retrieval of boreal forest for the satellite P-band synthetic-aperture radar BIOMASS	RVK	Stockholm, Sweden	2012	
Teodor Sommestad, Amund Gudmundson Hunstad	Intrusion detection and the role of the system administrator.	Human aspects in information security	Crete, Greece		
Maria Andersson, Joakim Rydell, Donald Prévost, Fredrik Gustafsson	Crowd Analysis with Target Tracking, K-means Clustering and Hidden Markov Models.	15th International Conference on Information Fusion (FUSION)	Singapore	2012	
Niklas Hallberg, Jonas Hallberg, Helena Granlund, Rogier Woltjer	Rationale for Emergency Management Systems for Local Communities: A Needs Assessment.	9th International ISCRAM Conference	Vancouver, Canada	2012	
José Chilo, Högskolan i Gävle, Peter Stenumgaard	Limitations of WLAN IEEE 802.11 in Industrial Environments.	Swedish Radio and Microwave days	Stockholm, Sweden	2012	
S Reyaz, Carl Samuelsson, Robert Malmqvist, M Kaynak, A Rydberg	Millimeter-Wave RFMEMS SPDT switch networks in a SiGe BiCMOS process technology.	7th European Microwave Integrated Circuits Conference	Amsterdam, The Netherlands		
Philip Engström, Maria Axelsson, Mikael Karlsson	Microsoft Kinect for THz Sensor Management.	3D Body Scanning Technologies	Lugano, Switzerland		
Jörgen Karlholm	Multi-class boosting with feature sharing for occlusion-tolerant person detection.	SSBA	Stockholm, Sweden	2012	
Tove Gustavi, Pontus Svenson	Pattern Theory in Intelligence Analysis.	EISIC 2012	Odense, Denmark		
Robert Malmqvist, Carl Samuelsson, Andreas Gustafsson, S Reyaz, A Rydberg	Reconfigurable RF-MEMS ICs for microwave and mm-wave applications.	7th European Microwave Integrated Circuits Conference	Amsterdam, The Netherlands		
Robert Malmqvist, Rolf Johnsson, Carl Samuelsson, S Reyaz, P Rantakari, Aziz Ouacha, T Vähä-Heikkilä, J Varis, A Rydberg	Self-actuation tests of Ohmic contact and capacitive RF-MEMS switches for wedeband RF power limiter circuits.	2012 IEEE Int Semiconductor Conference	Sinaya, Rumania		
Lars Ulander, B Flood, Per-Olov Fröling, Anders Gustavsson, Tomas Jonsson, Björn Larsson, D Murrin, Rolf Ragnarsson, Gunnar Stenström, R Baqué, H Cantalloube, P Dreuillet, O Ruault de Plessis	Suppression of clutter in bistatic VHF/UHF-band synthetic-aperture radar	RVK	Stockholm, Sweden	2012	
Rolf Ragnarsson, Magnus Elmqvist, Tommy Jonsson, Kjell Karlsson, Björn Larsson, Gunnar Stenström, Ove Steinvall, Lars Ulander	Toward a combined sensor system for detection and classification of small surface vessels in the maritime domain.	Internatonal Conference on Radar 2012	Glasgow		