

## List scientific peer-reviewed publications in refereed journals 2012

\*) Co-publication academy - industry

Authors	Title of publication	Journal	Volume	Issue	Pages
Erik Axell; Geert Leus; Erik G. Larsson; H. Vincent Poor	State-of-the-art and recent advances Spectrum Sensing for Cognitive Radio State-of-the-art and recent advances	IEEE signal processing magazine (Print)	29	3	101-116
Farhan Siddiqui; Sherali Zeadally; Thabet Kacem; Scott Fowler	Zero Configuration Networking: Implementation, performance, and security	Computers & electrical engineering	38	5	1129-1145
Jonas Lundberg; Eva Törnqvist; Simin Nadjm-Tehrani	Resilience in Sensemaking and Control of Emergency Response	International Journal of Emergency Management	8	2	99-122
Jordi Cucurull; Mikael Asplund; Simin Nadjm-Tehrani	Surviving Attacks in Challenged Networks	IEEE Transactions on Dependable and Secure Computing	9	6	917-929
Lei Yu; Eleftherios Karipidis; Erik G. Larsson	COORDINATED SCHEDULING AND BEAMFORMING FOR MULTICELL SPECTRUM SHARING NETWORKS USING BRANCH and BOUND	2012 PROCEEDINGS OF THE 20TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO)			819-823
Leonardo Martucci; Albin Zuccato; Ben Smeets; Sheikh M. Habib; Thomas Johansson; Nahid Shahmehri	Privacy, Security and Trust in Cloud Computing The Perspective of the Telecommunication Industry	2012 9th international conference on ubiquitous intelligence and computing and 9th international conference on autonomic and trusted computing (uic/atc)			627-632 *)
Michael Rosander; Gunilla Guvå	Keeping the peace: Police behaviour at a mass event	Journal of Investigative Psychology and Offender Profiling	9	1	52-68
Mikael Asplund; Simin Nadjm-Tehrani	Worst-case latency of broadcast in intermittently connected networks	International Journal of Ad Hoc and Ubiquitous Computing	11	2-3	125-138
Mohammed Saif Khan; Erik G Larsson	Single-User Beamforming in Large-Scale MISO Systems with Per-Antenna Constant-Envelope Constraints: The Doughnut Channel	IEEE Transactions on Wireless Communications	11	11	3992-4005
Ola Leifler; Henrik Eriksson	Message classification as a basis for studying command and control communication: an evaluation of machine learning approaches	Journal of Intelligent Information Systems	38	2	299-320
Ola Leifler; Henrik Eriksson	Automated text-based analysis for decision-making research	Cognition, Technology & Work	14	2	129-142
Ola Leifler; Henrik Eriksson	Analysis tools in the study of distributed decision-making: a meta-study of command and control research	Cognition, Technology & Work	14	2	157-168
Patrick Doherty; Fredrik Heintz; David Landén	A Distributed Task Specification Language for Mixed-Initiative Delegation	Lecture Notes in Computer Science	7057		42-57
Reza Moosavi; Erik G. Larsson	Reducing Physical Layer Control Signaling Using Mobile-Assisted Scheduling	IEEE Transactions on Wireless Communications		99	12-jan
Sofie Pilemalm; Niklas Hallberg; Magnus Sparf; Tomas Niclasson	Practical Experiences of Model-based Development: Case studies from the Swedish Armed Forces	International Journal of System of Systems Engineering	15	3	1-15
Tomas Faresjö; Lina Arvidsson; Pontus Boberg; Britt Hagert; Elin A Gursky; Toomas Timpka	Swedish nursing and medical students high vaccination adherence during the influenza A (H1N1) pandemic 2009: Insights for pandemic preparedness	Scandinavian Journal of Infectious Diseases	44	3	237-241
Toomas Timpka; Cecilia Nordqvist; Karin Festin; Kent Lindqvist	Quality indicators for implementation of safety promotion: Towards valid and reliable global certification of local programmes	Global Public Health	7	6	588-602
Toomas Timpka; Olle Eriksson; Armin Spreco; Elin A Gursky; Magnus Strömgren; Einar Holm; Joakim Ekberg; Orjan Dahlström; Lars Valter; Henrik Eriksson	Age as a determinant for dissemination of seasonal and pandemic influenza: an open cohort study of influenza outbreaks in Östergötland County, Sweden.	PLoS ONE	7	2	e31746
Yi Wu; Danyo Danev; Erik G. Larsson	Improved Detection of ACK/NACK Messages in the LTE Uplink Control Channel	IEEE Vehicular Technology Conference (VTC) Proceedings			
Yi Wu; Danyo Danev; Erik G. Larsson	ON ACK/NACK MESSAGES DETECTION IN THE LTE PUCCH WITH MULTIPLE RECEIVE ANTENNAS	2012 PROCEEDINGS OF THE 20TH EUROPEAN SIGNAL PROCESSING CONFERENCE (EUSIPCO)			994-998
A.P.F. Turner	Biosensors 2012	Biosensors & Bioelectronics	40		1-2
A.P.F. Turner	Biosensors: then and now	Trends in Biotechnology			<a href="http://dx.doi.org/10.1016/j.tibtech.2012.10.002">http://dx.doi.org/10.1016/j.tibtech.2012.10.002</a>
A. Israelsson; H. Gustafsson; E. Lund	Dose response of xylitol and sorbitol for EPR retrospective dosimetry with applications to chewing gum	Radiat Prot Dosimetry			<a href="http://dx.doi.org/10.1093/rpd/ncs174">http://dx.doi.org/10.1093/rpd/ncs174</a>
Anna-Karin Lindberg; Sven Ove Hansson	Accident Prevention Through Experience Feedback from the Rescue Services – A Study of Incident Reports in Sweden	Safety Science Monitor	16	1	1-9
Antonios Pitarokoilis; Saif Khan Mohammed; Erik G. Larsson	On the Optimality of Single-Carrier Transmission in Large-Scale Antenna Systems	IEEE Wireless Communications Letters	1	4	276-279
Chaitanya Tumula; Erik G. Larsson	Improving 3GPP-LTE Uplink Control Signaling Performance Using Complex-Field Coding				
Daniel Persson; Erik G. Larsson; Mikael Skoglund	Joint Source-Channel Decoding over MIMOChannels Based on Partial Marginalization	IEEE Transactions on Signal Processing	60	12	6734-6739
Daniel Persson; Johannes Kron; Mikael Skoglund; Erik G. Larsson	Joint Source-Channel Coding for the MIMO Broadcast Channel	IEEE Transactions on Signal Processing	60	4	2085-2090
Di Yuan; Vangelis Angelakis; Lei Chen; Eleftherios Karipidis; Erik G. Larsson	On Optimal Link Activation with Interference Cancellation in Wireless Networking	IEEE Transactions on Vehicular Technology			

Erik Axell; Erik G. Larsson	Eigenvalue-Based Spectrum Sensing of Orthogonal Space-Time Block Coded Signals	IEEE Transactions on Signal Processing	60	12	6724-6728	
Erik G. Larsson; Reza Moosavi	Piggybacking an Additional Lonely Bit on Linearly Coded Payload Data	IEEE Wireless Communications Letters	1	4	292-295	
F Gustafsson; F Gunnarsson; D Lindgren	Sensor models and localization algorithms for sensor networks based on received signal strength	EURASIP Journal on Wireless Communications and Networking	16	1		
Fredrik Gustafsson; Gustaf Hendeby	Some Relations Between Extended and Unscented Kalman Filters	IEEE Transactions on Signal Processing	60	2	545-555	
N. Hallberg; S. Pilemalm; T. Timpka	Quality Driven Requirements Engineering for Development of Crisis Management Systems	International Journal of Information Systems for Crisis Response and Management (IJISCRAM)				
Hannes Holm; Teodor Sommestad; Jonas Almroth; Mats Persson	A quantitative evaluation of vulnerability scanning	Information Management & Computer Security	19	4	231-247	
Javier Ferrer-Coll; José Chilo; Per Ångskog; Peter Stenumgaard	Characterization of Highly Absorbent and Highly Reflective Radio Wave Propagation Environments in Industrial Applications	IET Communications				
Javier Ferrer-Coll; Per Ångskog; José Chilo; Peter Stenumgaard	Characterization of Electromagnetic Properties in Iron-Mine Production Tunnels	IET Electronics Letters	48	2	62-63	*)
Joel Brynielsson; Lisa Kaati; Pontus Svenson	Social Positions and Simulation Relations	Journal of Social Network Analysis and Mining	2	1	39-52	
K Cohen; F Johansson; L Kaati; J C Mork	Detecting Linguistic Markers for Radical Violence in Social Media	Terrorism and Political Violence				
Karina Fors; Kia Wiklundh; Peter Stenumgaard	A simple measurement method to derive the impulsiveness correction factor for communication performance estimation	IEEE Transactions on Electromagnetic Compatibility				*)
Linda Johansson	Is It Morally Right to Use Unmanned Aerial Vehicles (UAVs) in War?	Philosophy and Technology	24	3	279-291	
Mehmet B. Guldogan; David Lindgren; Fredrik Gustafsson; Hans Habberstad; Umut Orguner	Multiple Target Tracking with Gaussian Mixture PHD Filter using Doppler-Only Measurements	IEEE Transactions on Aerospace and Electronic Systems				
Michail Matthaiou; George C. Alexandropoulos; Hien Quoc Ngo; Erik G. Larsson	Analytic framework for the effective rate of MISO fading channels	IEEE Transactions on Communications	60	6	1741-1751	
Mirsad Cirkic; Daniel Persson; Jan-Åke Larsson; Erik G. Larsson	Approximating the LLR Distribution for a Class of Soft-Output MIMO Detectors	IEEE Transactions on Signal Processing	60	12	6421-6434	
Per Skoglar; Umut Orguner; David Törnqvist; Fredrik Gustafsson	Road Target Search and Tracking with Gimballed Vision Sensor on an Unmanned Aerial Vehicle	Remote Sensing	4	7	2076-2111	
Per Skoglar; Umut Orguner; David Törnqvist; Fredrik Gustafsson	Pedestrian Tracking with an Infrared Sensor using Road Network Information	EURASIP Journal on Advances in Signal Processing	1	26	2012a	*)
Peter Stenumgaard; Daniel Persson; Kia Wiklundh; Erik G. Larsson	An early-warning service for emerging communication problems in security and safety applications	IEEE Communications Magazine				
Peter Stenumgaard; Karina Fors; Kia Wiklundh; Sara Linder	Interference on Tactical Radio Systems from Collocated Medical Equipment on Military Camps	IEEE Communications Magazine	50	10	64-69	*)
S. Pilemalm; N. Hallberg, M. Sparf; T. Niclasson	Practical Experiences of Model-based Development: Case studies from the Swedish Armed Forces	Journal of Systems Engineering	15	3		*)
Robert W Heath; Merouane Debbah; Erik G Larsson; Dong In Kim; Harish Viswanathan; Ismail Guevenc	Editorial Material: Introduction to the Issue on Signal Processing in Heterogeneous Networks for Future Broadband Wireless Systems	IEEE Journal on Selected Topics in Signal Processing	6	3	213-215	
Saif Khan Mohammed; Erik G Larsson	Single-User Beamforming in Large-Scale MISO Systems with Per-Antenna Constant-Envelope Constraints: The Doughnut Channel	IEEE Transactions on Wireless Communications				
Sara E. Linder; Peter Stenumgaard; Kia Wiklundh	Evaluation of the impulsiveness correction factor to control electromagnetic interference in dynamic communication systems	IET Communications	6	10	1229-1233	*)
Sven Ove Hansson	Safety is an inherently inconsistent concept	Safety Science	50		1522-1527	
Sven Ove Hansson	The trilemma of moral preparedness	Review journal of political philosophy	9		1-5	
Chandan Roy; Rita Kovordanyi	Tropical cyclone track forecasting techniques: A review	Atmospheric research	104-105		40-69	
Anneli Ehlerding; Ida Johansson; Sara Wallin; Henric Östmark	Resonance-Enhanced Raman Spectroscopy on Explosives Vapor at Standoff Distances.	International Journal of Spectroscopy	Volume 2012		Article ID 158715	
Jacob Löfvenberg; Jimmi Grönkvist; Anders Hansson	Data rate selection for efficient broadcasting in ad hoc networks.	Communications, IET	6	15	2274-2277	
Javier Ferrer-Coll; Per Ångskog; José Chilo; Peter Stenumgaard	Characterisation of electromagnetic properties in iron-mine production tunnels.	Electronics Letters	48	2	62-63	
Joel Brynielsson; Lisa Kaati; Pontus Svenson	Social positions and simulation relations.	Soc Network Analysis and Mining	2	1	39-52	
Maxim Neumann; Sassan S. Saatchi; Lars Ulander; Johan Fransson	Assessing performance of L- and P-band polarimetric interferometric SAR data in estimating boreal forest above-ground biomass.	Geoscience and Remote Sensing, IEEE Transactions on	50	3	714-726	
Niklas Hallberg; Sofie Pilemalm; Toomas Timpka	Quality driven requirements engineering for development of crisis management systems.	International Journal of Information Systems for Crisis Response and Management (IJISCRAM)	4	2	18 p	
Per-Olov Fröling; Anders Gustavsson; Mikael Lundberg; Lars Ulander	Circular-aperture VHF-band synthetic aperture radar for detection of vehicles in forest concealment.	Geoscience and Remote Sensing, IEEE Transactions on	50	4	1329-1339	
Peter Stenumgaard	Det trådlösa samhället öppnar för nya angrepp.					
Peter Stenumgaard; Karina Fors; Kia Wiklundh; Sara Linder	Electromagnetic Interference on Tactical Radio Systems from Collocated Medical Equipment on Military Camps.	Communications Magazine, IEEE	50	10	64-69	
Robert Malmqvist; Carl Samuelsson; Andreas Gustafsson; P. Rantakari; S. Reyaz; T. Vähä-Heikkilä; A. Rydberg; J. Varis; D. Smith; R. Baggen	A K-band RF-MEMS-enabled reconfigurable and multifunctional low-noise amplifier hybrid circuit.	Active and Passive Electronic Components	2011		Article ID 284767	
Sara Linder; Peter Stenumgaard; Kia Wiklundh	Extension of the impulsiveness correction factor for several modulation schemes and various interfering signals for interference control in dynamic wireless applications.	Communications, IET	6	10	1229-1233	
Sofie Pilemalm; Niklas Hallberg; Magnus Sparf; Thomas Niclason	Practical experiences of model-based development: Case studies from the Swedish Armed Forces.	System Engineering	15	4	407-421	

Stavros Ntalampiras; Dejan Arsic; Maria Andersson; Martin Hofmann; Todor Ganchev	PROMETHEUS: heterogeneous sensor database in support of research on human behavioral patterns in unrestricted environments	Signal Image and Video Processing			
Thomas K Sjögren; Viet T Vu; Mats I Pettersson; Anders Gustavsson; Lars Ulander	Moving target relative speed estimation and refocusing in synthetic aperture radar images.	Aerospace and Electronic Systems, IEEE Trans	48	3	2426-2436
Teodor Sommestad; Jonas Hallberg	Cyber security exercises and competitions as a platform for cyber security experiments	Computer Science	7617		47-60