

Scientific peer-reviewed publications in refereed journals 2011

*) Co-publication academy - industry

Authors	Title of publication	Journal	Volume	Issue	Pages
<u>KTH</u>					
Karin Edvardsson Björnberg, Sven Ove Hansson	Five Areas of Value Judgement in Local Adaptation to Climate Change	Local Government Studies	37		671-687
Neelke Doorn, Sven Ove Hansson	Should safety factors replace probabilistic design?	Philosophy and Technology	24		151-168
Peter G. Modin, Sven Ove Hansson	Moral and Instrumental Norms in Food Risk Communication	Journal of Business Ethics	101		313-324
Sven Ove Hansson, Linda Molander, Christina Rudén	The Substitution Principle	Regulatory Toxicology and Pharmacology	59		454-460
Sven Ove Hansson	Coping with the unpredictable effects of future technologies	Philosophy and Technology	24		137-149
Sven Ove Hansson	Radiation Protection – Sorting Out the Arguments	Philosophy and Technology	24		363-368
Qian Ding, Linda Schenk, Katarzyna Malkiewicz, Sven Ove Hansson	Occupational Exposure Limits in Europe and Asia – continued divergence or global harmonization?	Regulatory Toxicology and Pharmacology	61		296-309
<u>Chalmers</u>					
S. Cherednichenko, A. Hammar, S. Bevilacqua, et al	A room temperature bolometer for terahertz coherent and incoherent detection	IEEE Transactions on Terahertz Science and Technology	1	2	395 - 402
A. Hammar, S. Cherednichenko, S. Bevilacqua, et al	Terahertz Direct Detection in YBa2Cu3O7 Microbolometers	IEEE Transactions on Terahertz Science and Technology	1	2	390 - 394
P. Sobis, A. Emrich, J. Stake	A Low VSWR 2SB Schottky Receiver	IEEE Transactions on Terahertz Science and Technology	1	2	403-411
A.Y. Tang, J. Stake	Impact of Eddy Currents and Crowding Effects on High Frequency Losses in Planar Schottky Diodes	IEEE Transactions on Electron Devices	58	10	3260-3269
M.H. Tavakoli Dastjerdi, A. Sanz-Velasco, J. Vukusic, et al	InGaAs/InAlAs/AlAs Heterostructure Barrier Varactors on Silicon Substrate	IEEE Electron Device Letters	32	2	140-142
H. Zhao, A.Y. Tang, P. Sobis, et al	Submillimeter Wave S-Parameter Characterization of Integrated Membrane Circuits	IEEE Microwave and Wireless Components Letters	21	2	110-112
<u>LIU</u>					
Mussa Bshara, Umut Orguner, Fredrik Gustafsson, Leo Van Biesen	Robust Tracking in Cellular Networks Using HMM Filters and Cell-ID Measurements	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	60	3	1016-1024
Jonas Callmer, David Törnqvist, Fredrik Gustafsson, Henrik Svensson, Pelle Carlborn	RADAR SLAM using Visual Features	EURASIP Journal on Advances in Signal Processing	2011	71	
Mehmet Burak Guldogan, Fredrik Gustafsson, Umut Orguner, Svante Björklund, H. Petersson, A. Nezirovic	Human gait parameter estimation based on micro-doppler signatures using particle filters	Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing			5940-5943
Christian Lundquist, Lars Hammarstrand, Fredrik Gustafsson	Road Intensity Based Mapping using Radar Measurements with a Probability Hypothesis Density Filter	IEEE Transactions on Signal Processing	59	4	1397-1408
Christian Lundquist, Umut Orguner, Fredrik Gustafsson	Extended Target Tracking Using Polynomials With Applications to Road-Map Estimation	IEEE Transactions on Signal Processing	59	1	15-26
Per-Johan Nordlund, Fredrik Gustafsson	Probabilistic Noncooperative Near Mid-Air Collision Avoidance	IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS	47	2	1265-1276
Umut Orguner, Fredrik Gustafsson	Target Tracking With Particle Filters Under Signal Propagation Delays	IEEE TRANSACTIONS ON SIGNAL PROCESSING	59	6	2485-2495
Jouni Rantakokko, Joakim Rydell, Peter Stromback, Peter Handel, Jonas Callmer, David Törnqvist, Fredrik Gustafsson, Magnus Jobs, Mathias Gruden	ACCURATE AND RELIABLE SOLDIER AND FIRST RESPONDER INDOOR POSITIONING: MULTISENSOR SYSTEMS AND COOPERATIVE LOCALIZATION	IEEE WIRELESS COMMUNICATIONS	18	2	41200,00
Emre Özkan, Saikat Saha, Fredrik Gustafsson, Vaclav Smidl	Non-parametric bayesian measurement noise density estimation in non-linear filtering	Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing			5924-5927
Michael Felsberg	Autocorrelation-Driven Diffusion Filtering	IEEE Transactions on Image Processing			
Fredrik Larsson, Michael Felsberg, Per-Erik Forssen	Correlating Fourier descriptors of local patches for road sign recognition	IET Computer Vision	5	4	244-254
Erik Axell, Erik G. Larsson	Optimal and Sub-Optimal Spectrum Sensing of OFDM Signals in Known and Unknown Noise Variance	IEEE Journal on Selected Areas in Communications	29	2	290-304
Erik Axell, Geert Leus, Erik G. Larsson, H. Vincent Poor	Spectrum Sensing for Cognitive Radio: State-of-the-Art and Recent Advances	IEEE signal processing magazine (Print)			
Ender Ayanoglu, Erik G. Larsson, Eleftherios Karipidis	Computational Complexity of Decoding Orthogonal Space-Time Block Codes	IEEE Transactions on Communications	59	4	936-941
Jinfeng Du, Erik G. Larsson, Ming Xiao, Mikael Skoglund	Optimal Symbol-by-Symbol Costa Precoding for a Relay-aided Downlink Channel	IEEE Transactions on Communications	59	8	2274-2284

Johannes Kron, Daniel Persson, Mikael Skoglund, Erik G. Larsson	Closed-Form Sum-MSE Minimization for the Two-User Gaussian MIMO Broadcast Channel	IEEE Communications Letters	15	9	950-952
Erik G Larsson, Oscar Gustafsson	The Impact of Dynamic Voltage and Frequency Scaling on Multicore DSP Algorithm Design	IEEE SIGNAL PROCESSING MAGAZINE	28	3	
Hien Quoc Ngo, Erik G. Larsson	Linear Multihop Amplify-and-Forward Relay Channels: Error Exponent and Optimal Number of Hops	IEEE Transactions on Wireless Communications	10	11	3834-3842
Daniel Persson, Erik G. Larsson	Partial Marginalization Soft MIMO Detection with Higher Order Constellations	IEEE Transactions on Signal Processing	59	1	453-458
Fredrik Rusek, Daniel Persson, Buon Kiong Lau, Erik G. Larsson, Thomas L. Marzetta, Ove Edfors, Fredrik Tufvesson	Scaling up MIMO: Opportunities and Challenges with Very Large Arrays	IEEE signal processing magazine (Print)			*)
Shuying Shi, Erik G. Larsson, Mikael Skoglund	Codebook Design and Hybrid Digital/Analog Coding for Parallel Rayleigh Fading Channels	IEEE Transactions on Signal Processing	59	10	5091-5096
Chaitanya Tumula V. K., Erik G. Larsson	Superposition Modulation Based Symmetric Relaying with Hybrid ARQ: Analysis and Optimization	IEEE Transactions on Vehicular Technology	60	8	3667-3683
Chaitanya Tumula V. K., Erik G. Larsson	Outage-Optimal Power Allocation for Hybrid ARQ with Incremental Redundancy	IEEE Transactions on Wireless Communications	10	7	2069-2074
Mirsad Ćirkić, Daniel Persson, Erik G. Larsson	Allocation of Computational Resources for Soft MIMO Detection	IEEE Journal of Selected Topics in Signal Processing	5	8	1451-1461
Jonas Fritzin, Ylva Jung, Per Niklas Landin, Peter Handel, Martin Enqvist, Atila Alvandpour	Phase Predistortion of a Class-D Outphasing RF Amplifier in 90 nm CMOS	IEEE Transactions on Circuits and Systems - II - Express Briefs	58	10	642-646
Jonas Fritzin, Christer Svensson, Atila Alvandpour	Design and Analysis of a Class-D Stage with Harmonic Suppression	Transactions on Circuits and Systems-I: Regular Papers			
Timmy Sundström, Christer Svensson, Atila Alvandpour	A 2.4 GS/s, Single-channel, 31.3 dB SNDR at Nyquist, 8-bit Pipeline ADC in 65nm CMOS	IEEE Journal of Solid-State Circuits	46	7	1575-1584
Erik Kuiper, Simin Nadjm-Tehrani	Geographical Routing With Location Service in Intermittently Connected MANETs	IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	60	2	592-604
Fredrik Winquist, John Olsson, Mats Eriksson	Multicomponent analysis of drinking water by a voltammetric electronic tongue	Analytica Chimica Acta	683	2	192-197
Joakim Ekberg, Toomas Timpka, Magnus Bång, Anders Fröberg, Karin Hajje, Henrik Eriksson	Cell phone-supported cognitive behavioural therapy for anxiety disorders: a protocol for effectiveness studies in frontline settings.	BMC medical research methodology	11		3
Ola Leifler, Henrik Eriksson	Text-based Analysis for Command and Control Researchers: The Workflow Visualizer Approach	Cognition, Technology & Work			
Ola Leifler, Henrik Eriksson	Analysis tools in the study of distributed decision-making: a meta-study of command and control research	Cognition, Technology & Work			
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			
Toomas Timpka, Henrik Eriksson, Elin A Gursky, Magnus Stromgren, Einar Holm, Joakim Ekberg, Olle Eriksson, Anders Grimvall, Lars Valter, James M Nyce	Requirements and Design of the PROSPER Protocol for Implementation of Information Infrastructures Supporting Pandemic Response: A Nominal Group Study	PLOS ONE	6	3	17941
FOI					
A. Sume, M. Gustafsson, M. Herberthson, A. Jänis, S. Nilsson, J. Rahm, A Örbom	Radar Detection of Moving Targets Behind Corners	IEEE Transactions on Geoscience and Remote Sensing	49	6	2259-2267
M. Abbasi, S. E. Gunnarsson, N. Wadefalk, R. Kozhuharov, J. Svedin, S. Cherednichenko, I. Angelov, I. Kalfass, A. Leuther and H. Zirath,	Single-Chip 220 GHz Active Heterodyne Receiver and Transmitter MMICs with on-Chip Integrated Antenna"	IEEE Transactions on Microwave Theory and Techniques	59	2	466-478
C Grönwall, G Tolt, T Chevalier, H Larsson	Spatial filtering for detection of partly occluded targets	OPTICAL ENGINEERING	50	4	Article Number: 047201
L Ulander, B Flood, PO Frolind, A Gustavsson, T Jonsson, B Larsson, M Lundberg, D Murdin, G Stenstrom	Change Detection of Vehicle-Sized Targets in Forest Concealment Using VHF- and UHF-Band SAR	IEEE AEROSPACE AND ELECTRONIC SYSTEMS MAGAZINE	26	7	30-36
J. Rantakokko, P. Strömbäck, J.J. Rydell, D. Callmer, F. Törnqvist, F. Gustafsson, P. Händel, M. Jobs, M. Grundén	Accurate and reliable soldier and first responder indoor positioning: Multi-sensor systems and cooperative localization	IEEE Wireless Communications Magazine, 2011	8	2	40834
H Östmark, M Nordberg, T E Carlsson	Stand-off detection of explosives particles by multispectral imaging Raman spectroscopy	APPLIED OPTICS	50	28	5592-5599
A.A. Kononov, A. Wyholt, G. Sandberg, L.M.H. Ulander	Statistical analysis of VHF-band tree backscattering using forest ground truth data and PO scattering model	IEEE Transactions on Geoscience and Remote Sensing	49	8	3035-3046 *)
N R. Butt, M Nilsson, A Jakobsson, M Nordberg, A Pettersson, S Wallin, H Östmark	Classification of Raman Spectra to Detect Hidden Explosives	IEEE GEOSCIENCE AND REMOTE SENSING LETTERS	8	3	516-520 *)
Y Monfelt, S Pilemalm, J Hallberg, L Yngström	The 14-layered framework for including social and organizational aspects in security management	Information Management & Computer Security	19	2	124-133