

## List scientific peer-reviewed publications in refereed journals 2013

\*) Co-publication academy - industry

Authors	Title of publication	Journal	Volume	Issue	Pages
A. Israelsson; H. Gustafsson; E. Lund	Dose response of xylitol and sorbitol for EPR retrospective dosimetry with applications to chewing gum	Radiation Protection Dosimetry	154	2	133 – 141
Agneta Kullberg; Cecilia Nordqvist; Kent Lindqvist; Toomas Timpka	Examining quality function deployment in safety promotion in Sweden.	Health Promotion International			
Ali Fazli Yeknami; Atila Alvandpour	A 2.1 mu W 80 dB SNR DT Delta I pound modulator for medical implant devices in 65 nm CMOS	Analog Integrated Circuits and Signal Processing	77	1	69-78
Ali Fazli Yeknami; Fahad Qazi; Atila Alvandpour	Low-Power DT $\Delta\Sigma$ Modulators Using SC Passive Filters in 65nm CMOS	IEEE Transactions on Circuits and Systems Part 1			1-13
Ameya Bhide; Omid Esmailzadeh Najari; Behzad Mesgarzadeh; Atila Alvandpour	An 8-GS/s 200-MHz Bandwidth 68-mW $\Delta\Sigma$ DAC in 65-nm CMOS	IEEE Transactions on Circuits and Systems - II - Express Briefs	60	7	387-391
Amy Rankin; Nils Dahlbäck; Jonas Lundberg	A case study of factor influencing role improvisation in crisis response teams	Cognition, Technology & Work	15	1	79-93
S.P. Basak; B. Kanjilal; P. Priyabrata Sarkar; A.P.F. Turner	Application of Electrical Impedance Spectroscopy and Amperometry in Polyaniline Modified Ammonia Gas Sensor	Synthetic Metals	175		127-133
A.M. Bossi; M. Varejka; E.V. Piletska; A.P.F. Turner; I. Meglinski; S.A. Piletsky	Ice matrix in reconfigurable microfluidic systems	Laser Physics	23	7	075605, 6 pp
S. Cao; J. Chen; Y. Ge; L. Fang; Y. Zhang; A.P.F. Turner	A self-switchable Ag nanoreactor exhibiting outstanding catalytic properties	Chem. Comm.			Published online: DOI: 10.1039/C3CC47361A
Carsten Fritsche; Fredrik Gustafsson	Bounds on the Optimal Performance for Jump Markov Linear Gaussian Systems	IEEE Transactions on Signal Processing	61	1	92-98
Chaitanya Tumula; Erik G. Larsson	Optimal Power Allocation for Hybrid ARQ with Chase Combining in i.i.d. Rayleigh Fading Channels	IEEE Transactions on Communications	61	5	1835-1846
Chaitanya Tumula; Erik G. Larsson	Improving 3GPP-LTE Uplink Control Signaling Performance Using Complex-Field Coding	IEEE Transactions on Vehicular Technology	62	1	161-171
Christoph Studer; Erik G. Larsson	PAR-Aware Large-Scale Multi-User MIMO-OFDM Downlink	IEEE Journal on Selected Areas in Communications	31	2	303-313
Daniel Persson; Thomas Eriksson; Erik Larsson	Amplifier-Aware Multiple-Input Multiple-Output Power Allocation	IEEE Communications Letters	17	6	1112-1115
Daniel Svård; Christer Jansson; Atila Alvandpour	A readout IC for an uncooled microbolometer infrared FPA with on-chip self-heating compensation in 0.35 mu m CMOS	Analog Integrated Circuits and Signal Processing	77	1	29-44
David Karlsson; Joakim Ekberg; Armin Spreco; Henrik Eriksson; Toomas Timpka	Visualization of infectious disease outbreaks in routine practice	Studies in Health Technology and Informatics	192		697-701
David Windridge; Michael Felsberg; Affan Shaukat	A Framework for Hierarchical Perception–Action Learning Utilizing Fuzzy Reasoning	IEEE transactions on systems, man and cybernetics. Part B. Cybernetics	43	1	155-169
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	62	2	939-945
Ebrahim Avazkonandeh Gharavol; Erik G. Larsson	The Sign-Definiteness Lemma and Its Applications to Robust Transceiver Optimization for Multiuser MIMO Systems	IEEE Transactions on Signal Processing	61	2	238-252
Emre Özkan; Vaclav Smidl; Saikat Saha; Christian Lundquist; Fredrik Gustafsson	Marginalized Adaptive Particle Filtering for Nonlinear Models with Unknown Time-Varying Noise Parameters	Automatica	49	6	1566-1575
Fahad Shahbaz Khan; Muhammad Anwer Rao; Joost van de Weijer; Andrew Bagdanov; Antonio Lopez; Michael Felsberg	Coloring Action Recognition in Still Images	International Journal of Computer Vision	105	3	205-221
Feng Yin; Carsten Fritsche; Fredrik Gustafsson; Abdelhak M Zoubir	TOA-Based Robust Wireless Geolocation and Cramér-Rao Lower Bound Analysis in Harsh LOS/NLOS Environments	IEEE Transactions on Signal Processing	61	9	2243-2255
Fredrik Gustafsson; Rickard Karlsson	Generating Dithering Noise for Maximum Likelihood Estimation from Quantized Data	Automatica	49	2	554-560
Fredrik Heintz; Jonas Kvarnström; Patrick Doherty	Stream-Based Hierarchical Anchoring	Künstliche Intelligenz	27	2	119-128
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	30	1	40-60 *)
Gabriel Sandulescu; Peter Schaffer; Simin Nadjm-Tehrani	Exploiting resource heterogeneity in delay-tolerant networks	Wireless Communications & Mobile Computing	13	3	230-243
Gurkan Tuna; Bilel Nefzi; Gianpaolo Conte	Unmanned aerial vehicle-aided communications system for disaster recovery	Journal of Network and Computer Applications			
Hashim Raza Khan; Jonas Fritzin; Atila Alvandpour; Qamar ul Wahab	A parallel circuit differential class-E power amplifier using series capacitance	Analog Integrated Circuits and Signal Processing	75	1	31-40
Heléne Nilsson; Carl-Oscar Jonson; Tore Vikström; Eva Bengtsson; Johan Thorfinn; Fredrik Huss; Morten Kildal; Folke Sjöberg	Simulation-assisted burn disaster planning	Burns	39	6	1122-1130

Hien Quoc Ngo; Erik G. Larsson	Large-Scale Multipair Two-Way Relay Networks with Distributed AF Beamforming	IEEE Communications Letters	17	12	1-4
Hien Quoc Ngo; Erik G. Larsson; Thomas L. Marzetta	Energy and Spectral Efficiency of Very Large Multiuser MIMO Systems	IEEE Transactions on Communications	61	4	1436-1449
Hien Quoc Ngo; Erik G. Larsson; Thomas L. Marzetta	The Multicell Multiuser MIMO Uplink with Very Large Antenna Arrays and a Finite-Dimensional Channel	IEEE Transactions on Communications	61	6	2350-2361
Hien Quoc Ngo; Michail Matthaiou; Trung Q. Duong; Erik G. Larsson	Uplink Performance Analysis of Multicell MU-SIMO Systems with ZF Receivers	IEEE Transactions on Vehicular Technology	62	9	4471 - 4483
J-E. Holmberg	Software reliability analysis in probabilistic risk analysis	Nuclear Safety and Simulation	3	4	281–291
Joakim Ekberg; Toomas Timpka; Marianne Angbratt; Linda Frank; Anna-Maria Norén; Emelie Andersen; Elin Gursky; Boel Andersson Gäre	Design of an online health-promoting community: negotiating user community needs with public health goals and service capabilities	BMC Health Services Research	13	258	
Johannes Lindblom; Eleftherios Karipidis; Erik G. Larsson	Achievable Outage Rate Regions for the MISO Interference Channel	IEEE Wireless Communications Letters	2	4	439-439
Johannes Lindblom; Eleftherios Karipidis; Erik G. Larsson	Efficient Computation of Pareto Optimal Beamforming Vectors for the MISO Interference Channel with Successive Interference Cancellation	IEEE Transactions on Signal Processing	61	19	4782-4795
K. Fors; K Wiklundh; P. Stenumgaard	A simple measurement method to derive the impulsiveness correction factor for communication performance estimation	IEEE Transactions on Electromagnetic Compatibility	55	5	834 - 841
Kaibin Huang; Erik G. Larsson	Simultaneous Information and Power Transfer for Broadband Wireless Systems	IEEE Transactions on Signal Processing	61	23	5972-5986
Karim Jebari; Sven Ove Hansson	European public deliberation on Brain Machine Interface technology - Five Convergence Seminars	Science and Engineering Ethics	19		1071-1086
Ma Zheng; Daniel Persson; Erik G Larsson; Fan PingZhi	Multiple symbols soft-decision metrics for coded frequency-shift keying signals	Science China-Information Sciences	56	2	11-18
Maria Andersson; Fredrik Gustafsson; Louis St-Laurent; Donald Prevost	Recognition of Anomalous Motion Patterns in Urban Surveillance	IEEE Journal on Selected Topics in Signal Processing	7	1	102-110
Maria Lampi; Tore Vikström; Carl-Oscar Jonson	Triage performance of Swedish physicians using the ATLS algorithm in a simulated mass casualty incident: a prospective cross-sectional survey	Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine	21	90	
Maria Vasilevskaya; Linda Ariani Gunawan; Simin Nadjm-Tehrani; Peter Herrmann	Integrating security mechanisms into embedded systems by domain-specific modelling	Security and Communication Networks			
Michail Matthaiou; George K. Karagiannidis; Erik G. Larsson; Thomas L. Marzetta; Robert Schober	Editorial Material: Large-Scale Multiple Antenna Wireless Systems	IEEE Journal on Selected Areas in Communications	31	2	113-116
Niklas Möller	Three Failed Charges Against Ideal Theory	Social Theory & Practice	39	1	19-44
Niklas Möller	Political Legitimacy in the Real Normative World: the Priority of Morality and the Autonomy of the Political	British Journal of Political Science			on line
O. Parlak; A.P.F. Turner; Tiwari	On/off-switchable zipper-like bioelectronics on a graphene interface	Advanced Materials			Published online: DOI: 10.1002/adma.
Patrick Doherty; Andrzej Szalas	Automated Generation of Logical Constraints on Approximation Spaces Using Quantifier Elimination	Fundamenta Informaticae	127	1-4	135-149
Patrick Doherty; Fredrik Heintz; Jonas Kvarnström	High-level Mission Specification and Planning for Collaborative Unmanned Aircraft Systems using Delegation	Unmanned Systems	1	1	75-119
Peter Stenumgaard; José Chilo; Javier Ferrer-Coll; Per Ångskog	Challenges and Conditions for Wireless Machine-to-Machine Communications in Industrial Environments	IEEE Communications Magazine(ISSN 0163-6804)(EISSN 1558-1896)	51	6	187-192 *)
Peter Stenumgaard; Daniel Persson; Kia Wiklundh; Erik G Larsson	An Early-Warning Service for Emerging Communication Problems in Security and Safety Applications	IEEE Communication Magazine	51	5	186-192 *)
A. Poma; A. Guerreiro; M. Whitcombe; E. Piletska; A.P.F. Turner; S. Piletsky	Automatic Synthesis of Molecularly Imprinted Polymer Nanoparticles - "Plastic Antibodies"	Advanced Functional Materials	23		2821-2827
Reza Moosavi; Erik G. Larsson	Reducing Physical Layer Control Signaling Using Mobile-Assisted Scheduling	IEEE Transactions on Wireless Communications	12	1	368-379
Robin Keskisärkkä; Arne Jönsson	Investigations of Synonym Replacement for Swedish	Northern European Journal of Language Technology (NEJLT)	3	3	41-59
Saif Khan Mohammed; Erik G. Larsson	Per-Antenna Constant Envelope Precoding for Large Multi-User MIMO Systems	IEEE Transactions on Communications	61	3	1059-1071
A. Sekretaryova; M. Vagin; V. Beni; A.P.F. Turner; A. Karyakin	Unsubstituted Phenothiazine as a Superior Water-insoluble Mediator for Oxidases	Biosensors and Bioelectronics			Published online: DOI: 10.1016/i.bios.
Sofie Pilemalm; Rebecca Stenberg; Tobias Andersson Granberg	Emergency Response in Rural Areas	International Journal of Information Systems for Crisis Response and Management	5	2	19-31
Sven Ove Hansson	The trilemma of moral preparedness	Review journal of political philosophy	9		1-5
Sven Ove Hansson; Karin Joelsson	Crop biotechnology for the environment?	Journal of Agricultural and Environmental Ethics	26		759-770
Tomas Bryllert; Vladimir Drakinskiy; Ken B Cooper; Jan Stake	Integrated 200-240-GHz FMCW Radar Transceiver Module	IEEE Trans Microw Theory Tech	61	10	3805-3815 *)
A.P.F. Turner	Biosensors: sense and sensibility	Chemical Society reviews	42		3184-3196
A.P.F. Turner	Biosensors: then and now	Trends in biotechnology	31		119-120
Vasileios Zografos; Reiner Lenz; Michael Felsberg	The Weibull manifold in low-level image processing: an application to automatic image focusing.	Image and Vision Computing	31	5	401-417
Wu Yi; Zheng Meng; Fei ZeSong; Erik G Larsson; Kuang JingMing	Outage probability analysis for superposition coded symmetric relaying	SCIENCE CHINA-INFORMATION SCIENCES	56	2	

Ylva Jung; Jonas Fritzin; Martin Enqvist; Atila Alvandpour	Least-Squares Phase Predistortion of a +30dBm Class-D Outphasing RF PA in 65nm CMOS	IEEE Transactions on Circuits and Systems Part 1	60	7	1915-1928
Z. Iqbal; M. Eriksson	Classification and quantitative optical analysis of liquid and solid samples using a mobile phone as illumination source and detector	Sensors and Actuators B	185		0