

List scientific peer-reviewed publications in refereed journals 2017.

Autors	Title of publication	Journal	Volume	Issue	Pages x-y	Year of publication
A. A. Generalov, M. A. Andersson, X. Yang, A. Vorobiev, and J. Stake	A 400-GHz Graphene FET Detector	IEEE Trans. Terahertz Sci. Technol	7	5	614-616	2017
Ahmet Gokceoglu;Emil Björnson;Erik G Larsson;Mikko Valkama	Spatio-Temporal Waveform Design for Multiuser Massive MIMO Downlink With 1-bit Receivers	IEEE Journal on Selected Topics in Signal Processing	11	2	347-362	2017
Azzouzi, S., Mak, W.C., Kor, K., Turner, A.P.F., Ben Ali, M. and Beni, V.	An integrated dual functional recognition/amplification bio-label for the one-step impedimetric detection of micro RNA-21	Biosensors and Bioelectronics	92		154-161	2017
Björn Johansson;Jonas Lundberg	Resilience and the temporal dimension: the chimera of timely response	Theoretical Issues in Ergonomics Science	18	2	110-127	2017
Bruria Adini, Aslag Wegner Eide, Iivonne A Herrera, Odeya Cohen, Susanna Nilsson	Striving to be resilient: What concepts, approaches and practices should be incorporated in resilience management guidelines?	Technological Forecasting and Social Change	121		39-49	2017
Carl Rollenhagen, Thomas Falk and Sven Ove Hansson	Challenges, dilemmas, and quality criteria for safety reviews	Journal of Radiological Protection	37		279-295	2017
Carl-Oscar Jonson;Jenny Pettersson;Jonas Rybing;Heléne Nilsson;Erik Prytz	Short simulation exercises to improve emergency department nurses self-efficacy for initial disaster management: Controlled before and after study	Nurse Education Today	55		20-25	2017
Christopher Mollén;Junil Choi;Erik G. Larsson;Robert W. Heath	Uplink Performance of Wideband Massive MIMO With One-Bit ADCs	IEEE Transactions on Wireless Communications	16	1	87-100	2017
Daniel Verenzuela;Guowang Miao	Scalable D2D Communications for Frequency Reuse 1 in 5G	IEEE Transactions on Wireless Communications	16	6	3435-3447	2017
Dennis Andersson;Amy Rankin;Darryl Diptee	Approaches to team performance assessment: a comparison of self-assessment reports and behavioral observer scales	Cognition, Technology & Work	19	2-3	517-528	2017
E. Gandini, J. Svedin, T. Bryllert, and N. Llombar	Optomechanical System Design for Dual-Mode Stand-Off Submillimeter Wavelength Imagers	IEEE Trans. Terahertz Sci. Technol	7	4	393-403	2017

Elisabeth de Carvalho;Emil Björnson;Jesper H. Sorensen;Erik G. Larsson;Petar Popovski	Random Pilot and Data Access in Massive MIMO for Machine-Type Communications	IEEE Transactions on Wireless Communications	16	12	7703-7717	2017
Elisabeth de Carvalho;Emil Björnson;Jesper H. Sorensen;Petar Popovski;Erik G Larsson	Random Access Protocols for Massive MIMO	IEEE Communications Magazine	55	5	216-222	2017
Elizabeth A Ainsbury, Daniel Samaga, Sara Della Monaca, Maurizio Marrale, Celine Bassinet, Christopher I Burbidge, Virgilio Correcher, Michael Discher, Jon Eakins, Paola Fattibene, İnci Güçlü, Manuel Higuera, Eva Lund, Nadica Maltar-Strmečki, Stephen McKeever, Christopher L Rääf, Sergey Sholom, Ivan Veronese, Albrecht Wieser, Clemens Woda, Francois Trompier	UNCERTAINTY ON RADIATION DOSES ESTIMATED BY BIOLOGICAL AND RETROSPECTIVE PHYSICAL METHODS	Radiation Protection Dosimetry	178	4	382-404	2017
Emil Björnson;Elisabeth de Carvalho;Jesper H. Sorensen;Erik G Larsson;Petar Popovski	A Random Access Protocol for Pilot Allocation in Crowded Massive MIMO Systems	IEEE Transactions on Wireless Communications	16	4	2220-2234	2017
Erik Axell, Patrik Eliardsson, Sara Örn Tengstrand, Kia Wiklundh	Power Control in Interference Channels With Class A Impulse Noise	IEEE Wireless Communications Letters.	6	1		2017
Erik G Larsson	No Downlink Pilots Are Needed in TDD Massive MIMO	IEEE Transactions on Wireless Communications	16	5	2921-2935	2017
Erik G Larsson;Danyo Danev;Mikael Olofsson;Simon Sörman	Teaching the Principles of Massive MIMO	IEEE signal processing magazine (Print)	34	1	40-47	2017
Evangelia Mittra;Mohammad Javad Jafari;Mikhail Vagin;Xianjie Liu;Mats Fahlman;Thomas Ederth;Magnus Berggren;Magnus Jonsson;Xavier Crispin	Oxygen-induced doping on reduced PEDOT	Journal of Materials Chemistry A	5	9	4404-4412	2017
Feng Yin;Yuxin Zhao;Fredrik Gunnarsson;Fredrik Gustafsson	Received-Signal-Strength Threshold Optimization Using Gaussian Processes	IEEE Transactions on Signal Processing	65	8	2164-2177	2017
Fredj, Z., Azzouzi, S., Turner, Anthony, P.F., Ben Ali, M. and Mak, W.C.	Neutravidin biosensor for direct capture of dual-functional AuNPMB-biotin for sensitive voltammetric detection of microRNA	Sensors and Actuators B	248		77-84	2017
Golabi, M., Kuralay, F., Jager, E.W.H., Beni, V. and Turner, A.P.F.	Electrochemical bacterial detection using poly(3-aminophenylboronic acid)-based imprinted polymer	Biosensors and Bioelectronics	93		87-93	2017

Gustaf Hendeby;Fredrik Gustafsson;Niklas Wahlström;Svante Gunnarsson	Platform for Teaching Sensor Fusion Using a Smartphone	International journal of engineering education	33	2B	781-789	2017
Hansson, E., Pettersson, H.B.L., Fortin, C., Eriksson, M.	Uranium aerosols at a nuclear fuel fabrication plant: Characterization using scanning electron microscopy and energy dispersive X-ray spectroscopy	Spectrochimica Acta Part B	131		130-137	2017
Hien Quoc Ngo;Alexei Ashikhmin;Hong Yang;Erik G Larsson;Thomas L. Marzetta	Cell-Free Massive MIMO Versus Small Cells	IEEE Transactions on Wireless Communications	16	3	1834-1850	2017
J. Stake, A. Malko, T. Bryllert, and J. Vukusi	Status and prospects of high-power heterostructure barrier varactor frequency multipliers	Proc. IEEE	105	6	1008-1019	2017
Johan Schubert	Counter-Deception in Information Fusion.	International Journal of Approximate Reasoning	91		152-159	2017
Jonas Rybing;Erik Prytz;Johan Hornwall;Helene Nilsson;Carl-Oscar Jonson;Magnus Bång	Designing a Digital Medical Management Training Simulator Using Distributed Cognition Theory	Journal Simulation & Gaming	48	1	131-152	2017
Jonson, C. O., Petterson, J., Rybing, J., Nilsson, H., & Prytz, E.	Short simulation excercises to improve emergency department nurses' self-efficacy for initial disaster management: controlled before and after study.	Nurse Education Today				2017
Lars Karlsson;Staffan Nilsson;Emmanouil Charitakis;Magnus Bång;Gustav Johansson;Lennart Nilsson;Magnus Janzon	Clinical decision support for stroke prevention in atrial fibrillation (CDS-AF): Rationale and design of a cluster randomized trial in the primary care setting	American Heart Journal	187		45-52	2017
Leknes, H., Skorge Aartun, E., Christiansen, M. & Andersson Granberg, T	Strategic ambulance location for heterogeneous regions. European Journal of Operational Research		260	1	122-123	2017
M. A. Andersson, Y. Zhang, and J. Stake	A 185–215-GHz Subharmonic Resistive Graphene FET Integrated Mixer on Silicon	IEEE Trans. Microw. Theory. Tech	65	1	165-172	2017
M. Strömgren;E. Holm;Örjan Dahlström;Joakim Ekberg;Henrik Eriksson;Armin Spreco;Toomas Timpka	Place-based social contact and mixing: a typology of generic meeting places of relevance for infectious disease transmission	Epidemiology and Infection	145	12	2582-2593	2017
Marcus Karlsson;Emil Björnson;Erik G Larsson	Jamming a TDD Point-to-Point Link Using Reciprocity-Based MIMO	IEEE Transactions on Information Forensics and Security	12	12	2957-2970	2017

Maria Lampi;Johan Junker;Peter Berggren;Carl-Oscar Jonson;Thore Vikström	Pre-hospital triage performance after standardized trauma courses	Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine	25		53	2017
Mark Scerbo;Rebecca Britt;Michael Montano;Rebecca Kennedy;Erik Prytz;Dimitri Stefanidis	The Effects of a retention interval and refresher session on intracorporeal suturing and knot tying skill and mental workload	Surgery	161	5	1209-1214	2017
Martin Danelljan;Gustav Häger;Fahad Khan;Michael Felsberg	Discriminative Scale Space Tracking	IEEE Transaction on Pattern Analysis and Machine Intelligence	39	8	1561-1575	2017
Michael Roth;Gustaf Hendeby;Carsten Fritsche;Fredrik Gustafsson	The Ensemble Kalman filter: a signal processing perspective	EURASIP Journal on Advances in Signal Processing		1	56	2017
Mikhail Vagin;Alina Sekretareva;Ivan Gueorguiev Ivanov;Anna Håkansson;Tihomir Iakimov;Mikael Syväjärvi;Rositsa Yakimova;Ingemar Lundström;Mats Eriksson	Monitoring of epitaxial graphene anodization	Electrochimica Acta	238		91-98	2017
Niklas Wellander, Sebastien Guennau, Elena Cherkaev	Two-Scale cut-and-projection convergence; homogenization of quasiperiodic structures.	Trends in Applied Mathematics.	41	3	1101-1106	2017
Nil Garcia;Henk Wymeersch;Erik G Larsson;Alexander M. Haimovich;Martial Coulon	Direct Localization for Massive MIMO	IEEE Transactions on Signal Processing	65	10	2475-2487	2017
Oleg Burdakov;Jonas Kvarnström;Patrick Doherty	Optimal scheduling for replacing perimeter guarding unmanned aerial vehicles	Annals of Operations Research	249	1	163-174	2017
Peter Berggren;Björn Johansson;Nicoletta Baroutsi	Assessing the quality of Shared Priorities in teams using content analysis in a microworld experiment	Theoretical Issues in Ergonomics Science	18	2	128-146	2017
Peter Holm	Efficient Methods for Computing Wave Propagation Over a Spherical Earth With an Exponential Refraction Index.	IEEE Transactions on Antennas and Propagation.	65	4		2017
R. Dahlbäck, V. Drakinskiy, J. Vukusic, and J. Stake, "A compact 128-element Schottky diode grid frequency doubler generating 0.25 W of output power at 183 GHz," IEEE Microw. Wireless Compon. Lett	A compact 128-element Schottky diode grid frequency doubler generating 0.25 W of output power at 183 GHz	IEEE Microw. Wireless Compon. Lett	27	2		2017
Rafael Rui;Tohid Ardeshiri;Henri Nurminen;Alexandre Bazanella;Fredrik Gustafsson	State Estimation for a Class of Piecewise Affine State-Space Models	IEEE Signal Processing Letters	24	1	61-65	2017

Ranjithkumar Ravichandran;C. Åstrand;Hirak Kumar Patra;Anthony Turner;V. Chotteau;Jaywant Phopase	Intelligent ECM mimetic injectable scaffolds based on functional collagen building blocks for tissue engineering and biomedical applications	RSC Advances	7	34	21068-21078	2017
Rickard Karlsson;Fredrik Gustafsson	The Future of Automotive Localization Algorithms: Available, reliable, and scalable localization: Anywhere and anytime	IEEE signal processing magazine (Print)	34	2	60-69	2017
Rodtichoti Wannapob;Mikhail Vagin;Yu Liu;Panote Thavarungkul;Proespichaya Kanatharana;Anthony Turner;Wing Cheung Mak	Printable Heterostructured Bioelectronic Interfaces with Enhanced Electrode Reaction Kinetics by Intermicroparticle Network	ACS Applied Materials and Interfaces	9	38	33368-33376	2017
Rosander, M. and Jonson, C.-O	Professional confidence in the roles as ambulance and medical incident commander.	Journal of Contingencies Crisis Management.				2017
Rybing, J., Prytz, E., Hornwall, J., Nilsson, H., Jonson, C.-O, & Bång, M	Designing a Digital Medical Management Training Simulator Using Cognition Theory. Simulation & Gaming,		48	1		2017
Sekretaryova, A., Vagin, M., Turner, A.P.F. and Eriksson, M.	Correspondence on "Can Nanoimpacts Detect Single-Enzyme Activity? Theoretical Considerations and an Experimental Study of Catalase Impacts"	ACS Catalysis	7		3591-3593	2017
Sven Ove Hansson	The Ethics of Technology.	Methods and Approaches			151-171	2017
Sven Ove Hansson	Five caveats for risk-risk analysis	Journal of Risk Research	20	8	984-987	2017
Sven Ove Hansson	Philosophy of Risk	Oxford Bibliographies in Philosophy				2017
Sven Ove Hansson	Uncertainty and Control	Diametros	53		279-295	2017
Tahir Nawaz;Amanda Berg;James Ferryman;Jörgen Ahlberg;Michael Felsberg	Effective evaluation of privacy protection techniques in visible and thermal imagery	Journal of Electronic Imaging (JEI)	26	5		2017
Wannapob, R., Vagin, M., Liu, Y., Thavarungkul, P., Kanatharana, P., Turner, A. P. F., Mak, W.C.	Printable hetero-structured bioelectronic interfaces with enhanced electrode reaction kinetics via inter-microparticle network	ACS Applied Materials & Interfaces	9		33368-33376	2017
Victor Cheng;Emil Björnson;Erik G Larsson	Optimal Pilot and Payload Power Control in Single-Cell Massive MIMO Systems	IEEE Transactions on Signal Processing	65	9	2363-2378	2017
Viet Thuy Vu, Mats I Pettersson, Thomas Sjögren	Moving Target Focusing in SAR Image With Known Normalized Relative Speed.	IEEE Transactions on Aerospace and Electronic Systems.	53	2	854-861	2017

X. Yang, A. Vorobiev, A. Generalov, M. A. Andersson, and J. Stake	A flexible graphene terahertz detector	Appl. Phys. Lett	111	2	21102	2017
Xueru Li;Emil Björnson;Erik G Larsson;Shidong Zhou;Jing Wang	Massive MIMO with multi-cell MMSE processing: exploiting all pilots for interference suppression	EURASIP Journal on Wireless Communications and Networking			117	2017
Zhybak, M.T., Fayura, L.Y., Boretsky, Y.R., Gonchar, M.V., Sibirny, A.A., Dempsey, E., Turner, A.P.F. and Korpan, Y.I.	Amperometric L-arginine biosensor based on a novel recombinant arginine deiminase	Microchimica Acta	184		2679–2686	2017
Zoran Sjanic;Martin A. Skoglund;Fredrik Gustafsson	EM-SLAM with Inertial/Visual Applications	IEEE Transactions on Aerospace and Electronic Systems	53	1	273-285	2017
Özgür, E., Parlak, O., Uzun, L., Beni, V. and Turner, A.P.F.	Bioinspired design of polymer-based biohybrid sensor interface as a	Sensors and Actuators B	251		674-682	2017