

**List scientific peer-reviewed publications in refereed journals 2015.**

Title of publication	Authors	Journal	Volume	Issue	Pages y-x
A 474 GHz HBV Frequency Quintupler Integrated on a 20µm Thick Silicon Substrate	A. Malko; T. Bryllert; J. Vukusic; J. Stake	IEEE Transactions on Terahertz Science and Technology 5	5	1	85-91
A novel confidence-based multiclass boosting algorithm for mobile physical activity monitoring	Attila Reiss, Gustaf Hendeby, Didier Stricker	Personal and Ubiquitous Computing	19	1	105-121
A self-polishing platinum ring voltammetric sensor and its application to complex media	Cavanillas, Santiago; Winquist, Fredrik; Eriksson, Mats	Analytica Chimica Acta	859		29-36
Approximate Bayesian Smoothing with Unknown Process and Measurement Noise Covariances	Ardehshiri, Tohid Özkan, Emre; Orguner, Umut; Gustafsson Fredrik,	IEEE Signal Processing Letters	22	12	2450-2454
Changes in stress and subjective workload over time following a workload transition.	Prytz, E; Scerbo, M	Theoretical Issues in Ergonomics Science, in press, DOI	16	6	586-605
Cognitive Learning, Monitoring and Assistance of Industrial Workflows Using Egocentric Sensor Networks	Gabriele Bleser, Dima Damen, Aedhendu Behera, Gustaf Hendeby, Katharina Mura, Markus Miezal, Andrew Gee, Nils Petersen, Gustavo Macaes, Hugo Domingues, Dominic Gorecky, Luis Almeida, Walterio Mayol-Cuevas, Andrew Calway, Anthony G Cohn, David C Hogg, Didier Stricker	PLoS One	10	6	1-41
Compact color–texture description for texture classification	Khan, Fahad Shahbaz; Muhammad, Anwer; van de Weijer, Joost; Felsberg, Michael	Pattern Recognition Letters	51		16-22

Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles	Sodzel, Dzmitry; Ihranovsky, Volodymyr; Beni, Valerio; Turner, Anthony; Viter, Roman; Eriksson, Martin; O Holtz, Per-Olof; Janot, Jean-Marc Bechelany; Mikhael, Belma; Sebastien, Smyntyna; Valentyn Kolesneva; Ekaterina, Dubovskaya; Lyudmila, Volotovskii; Igor, Ubelis, Arnolds Yakimova, Rositsa	Microchim Acta	182		1819-1826
Cooperative Localization in WSNs Using Gaussian Mixture Modeling: Distributed ECM Algorithms	Yin, Feng; Fritsche, Carsten; Jin, Di; Gustafsson, Fredrik Zoubir; Abdelhak M.	IEEE Transactions on Signal Processing	63	6	1448-1463
Detection and Suppression of Impulsive Noise in OFDM Receiver	Javier Ferrer-Coll, Slimane Ben Slimane, José Chilo, Peter Stenumgaard	Wireless Personal Communications	85	4	2245-2259
Distributed localization using acoustic doppler	David Lindgren, Gustaf Hendeby, Fredrik Gustafsson,	Signal Processing	107		43-53
Efficient polarimetric BRDF model	Ingmar G.E. Renhorn, Tomas Hallberg, Glenn D. Boreman	Optic Express	23	24	31253-73
Evaluation of Impact on Digital Radio Systems by Measuring Amplitude Probability Distribution of Interfering Noise	Yasushi Matsumoto , Kia Wiklundh	IEICE TRANSACTIONS on Communications	E98-B	7	1143-1155
Exploring collaborative command and control work during a live major incident.	Prytz, E; Rybing, J; Carlström, E, Khorram; Manesh, A; Jonson, C.-O	International Journal of Emergency Services	4	2	
Features for micro-Doppler based activity classification	Svante Björklund, Henrik Petersson, Gustaf Hendeby	IET Radar Sonar Navigation	9	9	1181-1187
Fourth Generation of User-centered Design – Developing for E-government and Cross-sector Collaborations.	Pilemalm, S; Lindgren, I; Ramsell, E.	In Electronic Government and Electronic Participation	22		178-192
Going to Mars: The ethics of risk	Sven Ove Hansson	Lahey Health Journal of Medical Ethics			10-11

Highly Accurate Attitude Estimation via Horizon Detection	Grelsson, Bertil; Felsberg, Michael; Isaksson, Folke	Journal of Field Robotics			
Improved and sustained triage skills in firemen after a short training intervention.	Nilsson, A.; Åslund, K; Lampi, M; Nilsson, H; Jonson, C.-O.	Scandinavian Journal of Trauma, Resuscitation and Emergency Medicine	23	81	
Intracorporeal suturing: transfer from fundamentals of laparoscopic surgery to cadavers results in substantial increase in mental workload.	Britt, R. C; Scerbo, M. W; Montano, M; Kennedy, R. A; Prytz, E; Stefanidis, D.	Surgery	158	5	1428-1433
Knowledge Exploitation for Human Micro-Doppler Classification	Karabacak, Cesur; Gurbuz, Sevgi Z; Gurbuz, Ali C; Guldogan, Mehmet B; Hendeby, Gustaf; Gustafsson, Fredrik	IEEE Geoscience and Remote Sensing Letters	12		2125-2129
Measurement Analysis and Channel Modeling for TOA-Based Ranging in Tunnels	Vladimir Savic, Javier Ferrer-Coll, Per Ångskog, José Chilo, Peter Stenumgaard, Erik G. Larsson	IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	14	1	456-467
Measurement of absorbed dose to water around an electronic brachytherapy source: Comparison of two dosimetry systems: lithium formate EPR dosimeters and radiochromic EBT2 film	Lund, Eva; Adolfsson, Emelie; White, Shane; Gustafsson, Håkan; Verhaegen, Frank; Reniers, Brigitte; Carlsson Tedgren, Åsa; Alm Carlsson, Gudrun	Physics in Medicine and Biology	60		3869-3882
Navigation and SAR focusing with Map Aiding	Sjanic, Zoran; Gustafsson, Fredrik	IEEE Transactions on Aerospace and Electronic Systems	51		1652-1663
Nitrate and Nitrite Electrocatalytic Reduction at Layer-by-Layer Films Composed of Dawson-type Heteropolyanions Mono-substituted with Transitional Metal Ions and Silver Nanoparticles	Imar, Shahzad; Yaqub, Mustansara; Maccato, Chiara; Dickinson, Calum; Laffir, Fathima; Vagin, Mikhail; McCormac, Timothy	Electrochimica Acta	184		323-330
Nuclear Energy and the ethics of radiation protection	Sven Ove Hansson	Behnam Taebi and Sabine Roeser, The Ethics of Nuclear Energy. Risk, Justice, and Democracy in the post-Fukushima Era	Journal of Risk Research		17-34
On the Distribution of Uranium in Hair: Non-Destructive Analysis Using SR- $\mu$ XRF	Axel Israelsson; Eriksson, M; Pettersson, Håkan	Spectrochimica Acta Part B	108		28-34

Optimal Power Allocation for Parallel Two-State Gaussian Mixture Impulse Noise Channels	Erik Axell, Kia Wiklundh, Peter Stenumgaard	IEEE Wireless Communications Letters	4	2	177-180
Phase Locking of a 2.5 THz Quantum Cascade Laser to a Microwave Reference using THz Schottky Mixer	B. Bulcha; J. Hesler, A; Valavanis, V; Drakinskiy, J. Stake; R. Dong; J. Zhu, P. Dean; L. Li; A. Davies; E. Linfield; N. Barker	40th International Conference on Infrared, Millimeter and Terahertz Waves			
Printed Electrochemical Instruments for Biosensors	Beni, Valerio; Nilsson, D; Arven, P, Norberg, P; Gustafsson, G; Turner, Anthony	ECS Journal of Solid State Science and Technology	4		S3001-S3005
Protection without discrimination: pregnancy and occupational health regulations	Linda Schenk; Sven Ove Hansson	European Journal of Risk Regulation			
Recursive Maximum Likelihood Identification of Jump Markov Nonlinear Systems	Özkan, Emre; Lindsten, Fredrik; Fritsche, Carsten; Gustafsson, Fredrik	IEEE Transactions on Signal Processing,	63		754-765
Robust Inference for State-Space Models with Skewed Measurement Noise	Nurminen, Henri Ardeshiri, Tohid Piche, Robert Gustafsson, Fredrik	IEEE Signal Processing Letters	22		1898-1902
Simultaneous Navigation and Synthetic Aperture Radar Focusing	Sjanic, Zoran; Gustafsson, Fredrik	IEEE Transactions on Aerospace and Electronic Systems	51		1253-1266
Studying distributed cognition of simulation-based team training with DiCoT	Rybing, J; Nilsson, H; Jonson, C.-O; Bang, M	Ergonomics			
Tactical Consequences of Radio Spectrum Out-of-Band Properties	Peter Stenumgaard, Karina Fors, Kia Wiklundh, Sara Linder	Electronic Environment	-	-	-
The Concepts of Risk, Safety, and Security: Applications in Everyday Language	Max Boholm; Niklas Möller; Sven Ove Hansson	Risk Analysis	36	2	320-338
The Ethics of Making Patients Responsible	Sven Ove Hansson	Cambridge Quarterly of Healthcare Ethics			
The sufficiency of the theory of planned behavior for explaining information security policy compliance	Teodor Sommestad, Henrik Karlzén, Jonas Hallberg	Information Management & Computer Security	23	2	200-217
Timeprints for identifying social media users with multiple aliases	Fredrik Johansson, Lisa Kaati, Amendra Shrestha	Security Informatics	4	7	1-11
Unbiased decoding of biologically motivated visual feature descriptors	Michael Felsberg; Kristoffer Öfjäll; Reiner Lenz	Frontiers in Robotics and AI	2		

Using an Eye-safe laser rangefinder to assist Active and passive electrooptical sensor performance prediction in low visibility conditions	Ove Steinvall, Rolf Persson, Folke Berglund, Ove Gustafsson, Johan Öhgren, Frank Gustafsson	Optical Engineering	54	7	
Zinc Oxide Nanostructure-Modified Textile and Its Application to Biosensing, Photocatalysis, and as Antibacterial Material	Hatamie, Amir; Khan, Azam; Golabi, Mohsen; Turner, Anthony; Beni, Valerio; Mak, Wing Cheung; Sadollah Khani, Azar; Alnoor, Hatim; Zargar, Behrooz; Bano, Sumaira; Nour, Omer; Willander, Magnus	Langmuir	31		10913-10921