

## Peer-reviewed conference papers 2010

\*) Co-publication academy - industry

Authors	Title of paper	Name of conference	Location of conference	
T. Bryllert, J. Vukusic, A. Ø. Olsen, J. Stake	A Broadband Heterostructure Barrier Varactor Tripler Source	International Microwave Symposium (IMS)	Anaheim, CA	*)
J. Stake, T. Bryllert, P. Sobis, A.-Y. Tang, H. Zhao, J. Vukusic, A. O. Olsen, A. Emrich	Development of Integrated Submillimeter Wave Diodes for Sources and Detectors	Invited paper at the EuMW2010	Paris	*)
A.-Y. Tang, P. Sobis, V. Drakinsky, H. Zhao, J. Stake	Parameter Extraction and Geometry Optimisation of Planar Schottky Diodes	International Symposium on Space Terahertz Technology (ISSTT)	Oxford	
H. Zhao, A.-Y. Tang, P. Sobis, T. Bryllert, K. Yhland, J. Stenarson, J. Stake	VNA-calibration and S-parameter characterization of submillimeter wave integrated membrane circuits	35th International Conference on Infrared Millimeter and Terahertz Waves (IRMMW-THz)	Rome	*)
A.-Y. Tang, P. Sobis, H. Zhao, T. Bryllert, J. Stake	Analysis of the high frequency spreading resistance for surface channel planar Schottky diodes	35th International Conference on Infrared Millimeter and Terahertz Waves (IRMMW-THz)	Rome	
T. Bryllert, A. O. Olsen, J. Vukusic, J. Stake	A monolithic 280 GHz HBV frequency tripler	35th International Conference on Infrared Millimeter and Terahertz Waves (IRMMW-THz)	Rome	*)
P. Sobis, A. Emrich, J. Stake	A 340 GHz 2SB Schottky receiver for the STEAMR limb sounder	35th International Conference on Infrared Millimeter and Terahertz Waves (IRMMW-THz)	Rome	*)
R. Dahlbäck, T. Rubæk, T. Bryllert, M. Persson, J. Stake	340 GHz CW non-linear imaging system	35th International Conference on Infrared Millimeter and Terahertz Waves (IRMMW-THz)	Rome	
J. Svedin, S. Rudner, G. Thordarsson, N. Wadefalk, S. E. Gunnarsson, M. Abbasi, H. Zirath, J. Stake, T. Bryllert, J. Vukusic	An experimental 210 GHz radar system for 3D stand-off detection	35th International Conference on Infrared Millimeter and Terahertz Waves (IRMMW-THz)	Rome	*)
G. Carvajal, L.E.B. Eriksson, A. Kononov, S. Dokken	Operational Retrieval of Sea-Surface Dynamics from SAR data for safety and security	Third International Workshop SeaSAR 2010	Frascati, Italy	*)
A. Berg, L.E.B. Eriksson	Evaluation of a sea ice algorithm for SAR data from the Bay of Bothnia	Third International Workshop SeaSAR 2011	Frascati, Italy	
A. Berg, L.E.B. Eriksson	Evaluation of sea ice concentration algorithm for SAR data from the Bay of Bothnia	ESA Living Planet Symposium	Bergen, Norway	
J.E.S. Fransson, A. Pantze, L.E.B. Eriksson, M.J. Soja, M. Santoro	Mapping of wind-thrown forests using satellite SAR images	IEEE International Geoscience and Remote Sensing Symposium 2010	Honolulu, USA	*)
T. Johansson, J. Fagerström, M. Karlsson, A. Linderhed, A. Persson	Infrared animal modeling for training ATR algorithms	SPIE Europe: Security + Defence 2010	Toulouse, France	
E. Jungert, C. Grönwall, N. Hallberg, B. Kylesten, F. Lantz, L. Eriksson	A Generic Architecture for Surveillance Systems	The 16th International Conference on Distributed Multimedia Systems	Oak Brook, Illinois, USA	
D. Andersson	F-REX: Event-driven synchronized multimedia model visualization	Int. Conf. on Distributed Multimedia Systems	Oak Brook, Illinois, USA	
E. Jönsson, O. Steinvall, O. Gustafsson, F. Kullander, P. Jonsson	Standoff lidar simulation for biological warfare agent detection, tracking and classification	Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) Sensing XI	Orlando, Florida, United States	
E. Jungert	A theory on management of shared operational pictures for command and control systems design	IADIS Intern. conf. on Information Systems	Porto, Portugal	
J. Hallberg, J. Bengtsson	An approach to network security assessment based on probabilistic relational models	CPS Week 2010, First workshop on secure control systems	Stockholm, Sweden	
O. Steinvall, M. Elmqvist, K. Karlsson, H. Larsson, M. Axelsson	Laser imaging of small surface vessels and people at sea	SPIE Defence and Security	Orlando, USA	
O. Steinvall, M. Elmqvist, K. Karlsson, R. L. Espinola	Modeling of 1.5 um range gated imaging for small surface vessel identification	SPIE Security and Defence	Orlando, USA	
J. Högberg, L. Kaati	Weighted Unranked Tree Automata as a Framework for Plan Recognition	The 13th International Conference on Information Fusion	Edinburgh, UK	
R. Johansson, C. Mårtensson	Information Acquisition Strategies for Bayesian Network-based Decision Support	The 13th International Conference on Information Fusion	Edinburgh, UK	
P. Svenson, R. Forsgren, B. Kylesten, P. Berggren, W. R. Fah, M. S. Choo, J. K.Y. Hann	Swedish-Singapore studies of Bayesian Modelling techniques for tactical Intelligence analysis	The 13th International Conference on Information Fusion	Edinburgh, UK	
J. Brynielsson, J. Högberg, L. Kaati, C. Mårtensson, P. Svenson	Detecting social positions using simulation	The 2010 International Conference on Advances in Social Networks Analysis and Mining	Odense, Denmark	
K. Wiklundh, K. Fors, P. Stenumgaard	The maximum impulsiveness correction factor for Middletons Class A interference for different modulation schemes	EMC Europe	Wroclaw, Poland	
K. Wiklundh, Y. Matsumoto, K. Gotoh	Definition of APD-based emission limits for the protection of coded wireless systems from impulsive interference	EMC Europe	Wroclaw, Poland	
S. Pilemalm, J. Hallberg, Y. Monfelt, L. Yngström	The 14 layered framework for including social and organisational aspects in security management	South African information security multi-conference, SAISMC	Port Elizabeth, South Africa	
M. Andersson, S. Ntalampiras, T. Ganchev, J. Rydell, J. Ahlberg	Fusion of Acoustic and Optical Sensor Data for Automatic Fight Detection in Urban Environments	The 13th International Conference on Information Fusion	Edinburgh, UK	
P. Drews Jr, J. Quintas, J. Dias, M. Andersson, J. Nygård, J. Rydell	Crowd behavior analysis under cameras network fusion using probabilistic methods	The 13th International Conference on Information Fusion	Edinburgh, UK	
Javier Ferrer Coll, Juan José Choquehuanca, José Chilo, Peter Stenumgaard	Statistical Characterization of the Electromagnetic Environment in a Hospital	2010 Asia-Pacific Symposium on Electromagnetic Compatibility & Technical Exhibition on EMC RF/Microwave Measurement & Instrumentation	Beijing, China	
M. Andersson, R. Johansson	Multiple sensor fusion for effective abnormal behaviour detection in counter-piracy operations	2nd International Conference on WaterSide Security	Marina di Carrara, Italien	
A. Pettersson, S. Wallin, H. Östmark, A. Ehlerding, I. Johansson, M. Nordberg, H. Ellis, A. Al-Khalil	Explosives Standoff Detection using Raman Spectroscopy: From Bulk Towards Trace Detection	SPIE	Orlando, USA	
A. Ehlerding, I. Johansson, S. Wallin, H. Östmark	Stand-off detection of vapour phase explosives by resonance enhanced Raman spectroscopy	SPIE	Orlando, USA	
J.E.S Fransson, A. Pantze, L.E.B. Eriksson, M.J. Soja, M. Santoro	Mapping of wind-thrown forests using satellite SAR images	IGARSS 2010 Symposium, Remote Sensing: Global Vision for Local Action	Honolulu, Hawaii, USA	
A. Berg, L.E.B. Eriksson	Evaluation of a sea ice algorithm for SAR data from the Bay of Bothnia	SeaSAR 2010	Frascati, Italy	
A. Berg, L.E.B. Eriksson	Evaluation of sea ice concentration algorithm for SAR data from the Bay of Bothnia	ESA Living Planet Symposium	Bergen, Norway	
G. Carvajal, L.E.B. Eriksson, A. Kononov, S. Dokken	Operational Retrieval of Sea-Surface Dynamics from SAR data for safety and security	SeaSAR 2010	Frascati, Italy	

M. Knochenhauer, A. Persson, J-E. Holmberg, X. He	Comparison of Risk Criteria in Safety-Critical Industries	PSAM 10 - International Probabilistic Safety Assessment & Management Conference	Seattle, Washington, USA
P. Hessel, J-E. Holmberg, M. Knochenhauer, A. Amri	Status and Experience with the Technical Basis and Use of Probabilistic Risk Criteria for Nuclear Power Plants	PSAM 10 - International Probabilistic Safety Assessment & Management Conference	Seattle, Washington, USA
C. Andersson, S. Authén, J-E. Holmberg	User-friendliness and transparency in PSA modelling	PSAM 10 - International Probabilistic Safety Assessment & Management Conference	Seattle, Washington, USA
J.-E. Holmberg, Kent Bladh, J. Oxtrand, P. Pyy	Enhanced Bayesian THERP - Lessons learnt from HRA benchmarking	PSAM 10 - International Probabilistic Safety Assessment & Management Conference	Seattle, Washington, USA
J.-E. Holmberg, P. Hellström	Development of methods for risk follow-up and handling of CCF events in PSA applications	PSAM 10 - International Probabilistic Safety Assessment & Management Conference	Seattle, Washington, USA
M. Knochenhauer, J.-E. Holmberg	Guidance for the Definition and Application of Probabilistic Safety Criteria	PSAM 10 - International Probabilistic Safety Assessment & Management Conference	Seattle, Washington, USA
Kent Bladh, J.-E. Holmberg, J. Oxtrand, P. Pyy	Experience from HRA method evaluation	European Safety and Reliability, ESREL 2010	Rhodes, Greece
S. Authén, K. Björkman, J.-E. Holmberg, J. Larsson	Guidelines for reliability analysis of digital systems in PSA context - Phase 1 Status Report	NKS-230 Nordic nuclear safety research	Roskilde, Denmark
M. Wester, P. Sandin	Privacy and the public – perception and acceptance of various applications of ICT	11th International conference on the Social and Ethical Impacts of Information and Communication Technology	Tarragona, Spain
T. Reiman, C. Rollenhagen	Identifying the typical biases and their significance in the current safety management approaches	10th International Probabilistic Safety Assessment & Management Conference	Seattle, USA
M. Eriksson, D. Lindgren, R. Björklund, F. Winquist, H. Sundgren, I. Lundström	Safety and Security of Drinking Water Distribution Systems	Security Research Conference	Berlin, Germany
Cucurull, J., S. Nadjm-Tehrani, M. Asplund	Anomaly detection and mitigation for disaster area networks	Lecture Notes in Computer Science : RAID 2010	Ottawa, Canada
G. Sandulescu, P. Schaffer, S. Nadjm-Tehrani	Vicinity Resource Cartography for Delay-Tolerant Networks: a Holistic Perspective	3rd IFIP Wireless Days (WD'10) Conference, IEEE	Venice, Italy
S. Nadjm-Tehrani	SecFutur: Security Engineering Process for Networked Embedded Devices	12th Biennial Baltic Electronic Conference (BEC2010) IEEE	Tallinn, Estonia
S. Guergens, C. Rudolf, A. Mana, S. Nadjm-Tehrani	Security engineering for embedded systems: The SecFutur vision	International workshop on Security and Dependability for Resource Constrained Embedded Systems (S&D4RCES) in conjunction with SAFECOMP conference, ACM	Vienna, Austria
J. Cucurull, M. Asplund, S. Nadjm-Tehrani	Anomaly detection and mitigation for disaster area networks	13th International Symposium on Recent Advances in Intrusion Detection	Ottawa, Ontario, Canada
G. Sandulescu, S. Nadjm-Tehrani	Optimising Replication versus Redundancy in Window-aware Opportunistic Routing	International Conference on Communication Theory, Reliability, and Quality of Service, (part of NexCOMM 2010), IEEE	Athens/Glyfada, Greece
Asplund, M., T. de Lanerolle, C. Fei, P. Gautam, R. Morelli, S. Nadjm-Tehrani, G. Nykvist	Wireless Ad Hoc Dissemination for Search and Rescue	7th International ISCRAM Conference	Seattle, Washington, USA
Callmer, J., D. Törnqvist, F. Gustafsson	Probabilistic Stand Still Detection using Foot Mounted IMU	International Conference on Information Fusion	Edinburgh, Scotland
J. Hedborg, M. Felsberg	Fast and Robust Relative Pose Estimation for Forward and Sideways Motions	SSBA	Uppsala, Sweden
F. Lindsten, J. Callmer, H. Ohlsson, D. Törnqvist, T. B. Schön, F. Gustafsson	Geo-referencing for UAV Navigation using Environmental Classification	International Conference on Robotics and Automation (ICRA)	Anchorage, Alaska, USA
Lundquist, C., L. Danielsson, F. Gustafsson	Random Set Based Road mapping using Radar Measurements	European Signal Processing Conference	Aalborg, Denmark
Lundquist, C., U. Orguner, F. Gustafsson	Estimating Polynomial Structures from Radar Data	International Conference on Information Fusion	Edinburgh, Scotland
U. Orguner, F. Gustafsson	Multi target tracking with acoustic power measurements using emitted power density	International Conference on Information Fusion (FUSION '10)	Edinburgh, Scotland
U. Orguner, F. Gustafsson	Particle Filtering with Propagation Delayed Measurements	IEEE Aerospace Conference	MT, USA
U. Orguner, P. Skoglar, D. Törnqvist, F. Gustafsson	Combined point mass and particle filter for target tracking	IEEE Aerospace Conference	MT, USA
Rankin, A., R. Kovordanyi, H. Eriksson	Episode Analysis for Evaluating Response Operations and Identifying Training Needs	6th Nordic Conference on Human-Computer Interaction	Reykjavik, Iceland
Z. Sjanic, F. Gustafsson	Simultaneous navigation and SAR Auto-focusing	International Conference on Information Fusion	Edinburgh, Scotland
T. Sundström, C. Svensson, A. Alvandpour	A Single-channel, 2.4 GS/s, 4.9 ENOB at Nyquist, Pipeline ADC in 65nm CMOS	Swedish System on Chip Conference, SSoCC	Kolmården, Sweden
N. Wahlström, J. Callmer, F. Gustafsson	Magnetometers for tracking metallic targets	International Conference on Information Fusion (FUSION '10)	Edinburgh, Scotland
J. Wiklund, K. Nordberg, M. Felsberg	Software architecture and middleware for artificial cognitive systems	International Conference on Cognitive Systems	Zürich, Switzerland
M. Felsberg	Incremental computation of feature hierarchies	International Conference on Pattern Recognition	Istanbul, Turkey
N. Felsberg, F. Larsson	Learning object tracking in image sequences	International Conference on Cognitive Systems	Zürich, Switzerland