

Publications 2019

Content

Academic partners (LiU, CTH, KTH).....	1
Book.....	1
Conference paper	1
Journal Article.....	5
Report	11
Thesis	12
FOI.....	12
Articles.....	12
Conference paper	13
Miscellaneous	18

Academic partners (LiU, CTH, KTH)

Book

[1] M. Santini et al., "Designing an Extensible Domain-Specific Web Corpus for "Layfication" : A Case Study in eCare at Home," in *Cyber-Physical Systems for Social Applications*, D. Maya and W. Hiroaki, Eds. Hershey, PA, USA: IGI Global, 2019, pp. 98-155.

Conference paper

[2] O. Andersson and P. Doherty, "Deep RL for Autonomous Robots: Limitations and Safety Challenges," presented at the European Symposium on Artificial Neural Networks, Computational Intelligence and Machine Learning, 2019.

[3] O. Andersson, P. Sidén, J. Dahlin, P. Doherty, and M. Villani, "Real-Time Robotic Search using Structural Spatial Point Processes," presented at the Proceedings of the 35th Conference on Uncertainty in Artificial Intelligence (UAI 2019), Tel Aviv, Israel, July 22-25, 2019, 2019.

[4] M. Bashar, K. Cumanan, A. G. Burr, H. Quoc Ngo, E. G. Larsson, and P. Xiao, "On the Energy Efficiency of Limited-Backhaul Cell-Free Massive MIMO," presented at the IEEE International Conference on Communications (ICC), 2019.

- [5] E. Becirovic, E. Björnson, and E. G. Larsson, "DETECTION OF PILOT-HOPPING SEQUENCES FOR GRANT-FREE RANDOM ACCESS IN MASSIVE MIMO SYSTEMS," presented at the 44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019.
- [6] A. Berg, J. Ahlberg, and M. Felsberg, "Visual Spectrum Image Generation from Thermal Infrared," presented at the Swedish Symposium on Image Analysis, 2019.
- [7] A. Berg, J. Johnander, F. Durand de Gevigney, J. Ahlberg, and M. Felsberg, "Semi-automatic Annotation of Objects in Visual-Thermal Video," presented at the IEEE International Conference on Computer Vision Workshop (ICCVW), 2019.
- [8] I. Bernhard, M. Gustafsson, K. Hedström, J. Sefyrin, and E. Wihlborg, "A Digital Society for All? – Meanings, Practices and Policies for Digital Diversity," presented at the 52nd Hawaii International Conference on System Sciences, 2019.
- [9] P. Boström-Rost, D. Axehill, and G. Hendeby, "Informative Path Planning for Active Tracking of Agile Targets," presented at the Proceedings of 2019 IEEE Aerospace Conference, Big Sky, MT, USA, March 3-8, 2019, 2019.
- [10] P. Boström-Rost, D. Axehill, and G. Hendeby, "Informative Path Planning in the Presence of Adversarial Observers," presented at the 22nd International Conference on Information Fusion (FUSION), Ottawa, Canada, July 2-5, 2019, 2019.
- [11] Z. Chen, E. Björnson, and E. G. Larsson, "Dynamic Scheduling and Power Control in Uplink Massive MIMO with Random Data Arrivals," presented at the IEEE International Conference on Communications (ICC), 2019.
- [12] Z. Chen, N. Pappas, E. Björnson, and E. G. Larsson, "Age of Information in a Multiple Access Channel with Heterogeneous Traffic and an Energy Harvesting Node," presented at the IEEE Conference on Computer Communications (IEEE INFOCOM), 2019.
- [13] M. Danelljan, G. Bhat, F. S. Khan, and M. Felsberg, "ATOM: Accurate tracking by overlap maximization," presented at the IEEE Conference on Computer Vision and Pattern Recognition, Long Beach, CA, USA, June 16th - June 20th, 2019, 2019.
- [14] D. de Leng and F. Heintz, "Approximate Stream Reasoning with Metric Temporal Logic under Uncertainty," presented at the AAAI Conference on Artificial Intelligence (AAAI), Palo Alto, 2019.
- [15] A. Eldesokey, M. Felsberg, and F. S. Khan, "Propagating Confidences through CNNs for Sparse Data Regression," presented at the The 29th British Machine Vision Conference (BMVC), Northumbria University, Newcastle upon Tyne, England, UK, 3-6 September, 2018, 2019.
- [16] R. Forsling, Z. Sjanic, F. Gustafsson, and G. Hendeby, "Consistent Distributed Track Fusion Under Communication Constraints," presented at the 22nd International Conference on Information Fusion (FUSION), Ottawa, Canada, July 2-5, 2019, 2019.
- [17] S. Ghasemi-Goojani and P. Papadimitratos, "On the Capacity of State-Dependent Gaussian Z-Interference Channel," presented at the 15th International Symposium on

Information Theory and Its Applications, ISITA 2018, 28 October 2018 through 31 October 2018, 2019.

[18] S. Ghasemi-Goojani and P. Papadimitratos, "The Symmetric Two-Hop Channel with an Untrusted Relay," presented at the 15th International Symposium on Information Theory and Its Applications, ISITA 2018, 28 October 2018 through 31 October 2018, 2019.

[19] A. Ghazanfari, H. V. Cheng, E. Björnson, and E. G. Larsson, "A FAIR AND SCALABLE POWER CONTROL SCHEME IN MULTI-CELL MASSIVE MIMO," presented at the 44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019.

[20] Z. Gulgun, E. G. Larsson, and P. Papadimitratos, "Statistical method for spoofing detection at mobile GNSS receivers," presented at the 16th International Symposium on Wireless Communication Systems, ISWCS 2019, 27 August 2019 through 30 August 2019, 2019.

[21] G. Interdonato, P. Frenger, and E. G. Larsson, "Scalability Aspects of Cell-Free Massive MIMO," presented at the 2019 IEEE International Conference on Communications (ICC), Shanghai, China 20–24 May 2019, 2019.

[22] J. Johnander, M. Danelljan, E. Brissman, F. S. Khan, and M. Felsberg, "A generative appearance model for end-to-end video object segmentation," presented at the IEEE Conference on Computer Vision and Pattern Recognition. 2019, Long Beach, CA, USA, USA, 15-20 June 2019, 2019.

[23] R. Keskiä, H. Li, S. Cheng, N. Carlsson, and P. Lambrix, "An Ontology for Ice Hockey," presented at the 18th International Semantic Web Conference, 2019.

[24] M. Khodaei, H. Noroozi, and P. Papadimitratos, "Scaling Pseudonymous Authentication for Large Mobile Systems," presented at the 12th Conference on Security and Privacy in Wireless and Mobile Networks, WiSec 2019; Miami; United States; 15 May 2019 through 17 May 2019, Miami, FL, USA, 2019.

[25] M. Kristan et al., "The seventh visual object tracking vot2019 challenge results," presented at the IEEE International Conference on Computer Vision Workshops, 2019.

[26] J. Källström and F. Heintz, "Multi-Agent Multi-Objective Deep Reinforcement Learning for Efficient and Effective Pilot Training," presented at the FT2019. Proceedings of the 10th Aerospace Technology Congress, October 8-9, 2019, Stockholm, Sweden, 2019.

[27] J. Källström and F. Heintz, "Reinforcement Learning for Computer Generated Forces using Open-Source Software," presented at the Interservice/Industry Training, Simulation, and Education Conference, December 2-6, 2019, Orlando, USA, 2019.

[28] J. Källström and F. Heintz, "Tunable Dynamics in Agent-Based Simulation using Multi-Objective Reinforcement Learning," presented at the Adaptive and Learning Agents Workshop (ALA-19) at AAMAS, Montreal, Canada, May 13-14, 2019, 2019.

[29] N. Matinrad, T. Andersson Granberg, N. Ennab Vogel, and V. Angelakis, "Optimal Dispatch of Volunteers to Out-of-hospital Cardiac Arrest Patients," presented at the The 52nd Hawaii International Conference on System Sciences (HICSS), Hawaii, USA, 8th-11th January 2019, 2019.

- [30] L. Meng, W. C. Mak, and A. Turner, "Tailoring physio-chemical properties of conducting polymer interfaces for sensing and biosensing," presented at the IVC-21, ICSS-17, ICN+T 2019, Nanoforum Conference, Malmö, Sweden, 1-5 July, 2019, 2019.
- [31] D. Mishra and E. G. Larsson, "SUM THROUGHPUT MAXIMIZATION FOR MULTI-TAG MISO BACKSCATTERING," presented at the 44th IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019.
- [32] B. E. Munkvold et al., "Sharing Incident and Threat Information for Common Situational Understanding," presented at the ISCRAM Conference, València, Spain, May 19-22 2019, 2019.
- [33] B. Munkvold Erikssen, T. Opach, S. Pilemalm, J. Radianti, and J. K. Rød, "SHARING INFORMATION FOR COMMONSITUATIONAL UNDERSTANDING INEMERGENCY RESPONSE," presented at the European Conference on Information Systems (ECIS), Stockholm & Uppsala, Sweden, June 8-14, 2019, Uppsala, 2019.
- [34] S. Pilemalm, "ICT-Enabled Citizen Co-production in Excluded Areas – Using Volunteers in Emergency Response," presented at the 11th IFIP WG 8.5 International Conference, ePart 2019, San Benedetto Del Tronto, Italy, September 2–4, 2019, Cham, 2019.
- [35] E. Ramsell, T. Andersson Granberg, and S. Pilemalm, "Identifying functions for smartphone basedapplications in volunteer emergency response," presented at the 16th International Conference on Information Systems for Crisis Response and ManagementValencia (Spain), May 19-22, 2019, 2019.
- [36] A. Robinson, F. Järemo-Lawin, M. Danelljan, and M. Felsberg, "Discriminative Learning and Target Attention for the 2019 DAVIS Challenge onVideo Object Segmentation," presented at the The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.
- [37] M. F. Santangelo, W. C. Mak, D. Filippini, D. Corso, A. P. F. Turner, and S. Libertino, "Real time ATP bioluminescence monitoring on 3D printed LoC by highly sensitive SiPM," presented at the Optical Microsystems OμS19, Anacapri, Island of Capri, Italy, 9-11 September, 2019, 2019.
- [38] J. Sefyrin, M. S. Gustafsson, and E. Wihlborg, "Addressing Digital Diversity in an Advanced Information Society : Ethics of care in a Swedish library context," presented at the The European Group For Public Administration. Public Administration Across Borders, Northern Ireland, Belfast, Sep 09 - Sep 13, 2019, 2019.
- [39] J. Sefyrin, M. S. Gustafsson, and E. Wihlborg, "Addressing digital diversity in an advanced information society : Ethics of care in a Swedish library context. Working paper," presented at the Statsvetenskapliga förbundets årsmöte. SWEPSA. October, Norrköping, 2019.
- [40] M. Skoglund, F. Gustafsson, and G. Hendeby, "On Iterative Unscented Kalman Filter using Optimization," presented at the 22nd International Conferenceon Information Fusion, July 2-5, 2019, 2019.

- [41] K. Steins, N. Matinrad, and T. Andersson Granberg, "Forecasting the Demand for Emergency Medical Services," presented at the the 52nd Hawaii International Conference on System Sciences, 2019, January 8-11, Grand Wailea, Maui, Hawai'i, 2019.
- [42] R. Tommasini, R. Keskisärkkä, J.-P. Calbimonte, E. Blomqvist, E. Della Valle, and A. Bifet, "Continuous Analytics of Web Streams Half-Day Tutorial at The Web Conference 2019," presented at the World Wide Web Conference (WWW), 2019.
- [43] T. Van Chien, E. Björnson, and E. G. Larsson, "Sum Spectral Efficiency Maximization in Massive MIMO Systems: Benefits from Deep Learning," presented at the IEEE International Conference on Communications (ICC), 2019.
- [44] H. Yang and E. G. Larsson, "Can Massive MIMO Support Uplink Intensive Applications?," presented at the IEEE Wireless Communications and Networking Conference (WCNC), 2019.
- [45] K. Zhang and P. Papadimitratos, "On the Effects of Distance-decreasing Attacks on Cryptographically Protected GNSS Signals," presented at the 2019 International Technical Meeting of The Institute of Navigation, January 28 - 31, 2019, Reston, Virginia, 2019.
- [46] K. Zhang and P. Papadimitratos, "Safeguarding NMA Enhanced Galileo OS Signals from Distance-Decreasing Attacks," presented at the Proceedings of the 32nd International Technical Meeting of the Satellite Division of The Institute of Navigation (ION GNSS+ 2019), Miami, Florida, 2019.
- [47] K. Zhang and P. Papadimitratos, "Secure Multi-constellation GNSS Receivers with Clustering-based Solution Separation Algorithm," presented at the IEEE Aerospace Conference 2019, Mar 2 - Mar 9, 2019, Yellowstone Conference Center, Big Sky, Montana, 2019.

Journal Article

- [48] E. Adolfsson, P. Wesolowska, J. Izewska, E. Lund, and Å. Carlsson Tedgren, "END-TO-END AUDIT: COMPARISON OF TLD AND LITHIUM FORMATE EPR DOSIMETRY," 4th Joint International Symposium on Electron Paramagnetic Resonance (EPR) Dosimetry and Dating / International Conference of Biological Dosimetry (EPRBioDose), article vol. 186, no. 1, pp. 119-122, 2019.
- [49] E. Alickovic, T. Lunner, F. Gustafsson, and L. Ljung, "A Tutorial on Auditory Attention Identification Methods," *Frontiers in Neuroscience*, article vol. 13, 2019.
- [50] T. Andersson Granberg, T. Polishchuk, V. Polishchuk, and C. Schmidt, "A framework for integrated terminal airspace design," *Aeronautical Journal*, article vol. 123, no. 1263, pp. 567-585, 2019.
- [51] T. Andersson Granberg, T. Polishchuk, V. Polishchuk, and C. Schmidt, "Integer Programming-Based Airspace Sectorization for Terminal Maneuvering Areas with Convex Sectors," *Journal of Air Transportation*, article vol. 27, no. 4, 2019.

- [52] M. Z. Aslam, Y. Corre, E. Björnson, and E. G. Larsson, "Performance of a dense urban massive MIMO network from a simulated ray-based channel," *EURASIP Journal on Wireless Communications and Networking*, article 2019.
- [53] S. Azzouzi, Z. Fredj, A. Turner, M. Ben Ali, and W. C. Mak, "Generic Neutravidin Biosensor for Simultaneous Multiplex Detection of MicroRNAs via Electrochemically Encoded Responsive Nanolabels," *ACS SENSORS*, article vol. 4, no. 2, pp. 326-334, 2019.
- [54] A.-S. Bana et al., "Massive MIMO for Internet of Things (IoT) connectivity," *Physical Communication*, article vol. 37, 2019.
- [55] J. H. Beard et al., "Outcomes After Inguinal Hernia Repair With Mesh Performed by Medical Doctors and Surgeons in Ghana," *JAMA Surgery*, article vol. 154, no. 9, pp. 853-859, 2019.
- [56] E. Björnson, L. Van der Perre, S. Buzzi, and E. G. Larsson, "Massive MIMO in Sub-6 GHz and mmWave : Physical, Practical, and Use-Case Differences," *IEEE wireless communications*, article vol. 26, no. 2, pp. 100-108, 2019.
- [57] M. Cattelan, M. Vagin, N. A. Fox, I. G. Ivanov, I. Shtepliuk, and R. Yakimova, "Anodization study of epitaxial graphene : insights on the oxygen evolution reaction of graphitic materials," *Nanotechnology*, article vol. 30, no. 28, 2019.
- [58] P. Chandhar and E. G. Larsson, "Massive MIMO for Connectivity With Drones: Case Studies and Future Directions," *IEEE Access*, article vol. 7, pp. 94676-94691, 2019.
- [59] C. Che et al., "Twinning Lignosulfonate with a Conducting Polymer via Counter-Ion Exchange for Large-Scale Electrical Storage," *Advanced Sustainable Systems*, article vol. 3, no. 9, 2019.
- [60] V. Cheng, D. Persson, and E. G. Larsson, "Optimal MIMO Precoding Under a Constraint on the Amplifier Power Consumption," *IEEE Transactions on Communications*, article vol. 67, no. 1, pp. 218-229, 2019.
- [61] R. Chopra, C. R. Murthy, H. A. Suraweera, and E. G. Larsson, "Analysis of Nonorthogonal Training in Massive MIMO Under Channel Aging With SIC Receivers," *IEEE Signal Processing Letters*, article vol. 26, no. 2, pp. 282-286, 2019.
- [62] T. Costa, E. Adolfsson, M. Fager, and E. Lund, "CHARACTERIZATION OF A LITHIUM FORMATE EPR-DOSIMETRY SYSTEM FOR PROTON RADIATION THERAPY," 4th Joint International Symposium on Electron Paramagnetic Resonance (EPR) Dosimetry and Dating / International Conference of Biological Dosimetry (EPRBioDose), article vol. 186, no. 1, pp. 83-87, 2019.
- [63] M. Danelljan, G. Bhat, S. Gladh, F. S. Khan, and M. Felsberg, "Deep motion and appearance cues for visual tracking," *Pattern Recognition Letters*, article vol. 124, pp. 74-81, 2019.
- [64] D. DellAglio, T. Eiter, F. Heintz, and D. Le-Phuoc, "Special issue on stream reasoning," *Semantic Web*, Editorial material vol. 10, no. 3, pp. 453-455, 2019.

- [65] F. C. Dórea et al., "Drivers for the development of an Animal Health Surveillance Ontology (AHSO)," *Preventive Veterinary Medicine*, article vol. 166, no. 1, pp. 39-48, 2019.
- [66] A. Eldesokey, M. Felsberg, and F. S. Khan, "Confidence Propagation through CNNs for Guided Sparse Depth Regression," *IEEE Transactions on Pattern Analysis and Machine Intelligence*, article 2019.
- [67] E. Eriksson, J. Lysell, H. Larsson, K. Y. Cheung, D. Filippini, and W. C. Mak, "Geometric Flow Control Lateral Flow Immunoassay Devices (GFC-LFIDs): A New Dimension to Enhance Analytical Performance," *Research (Washington, D.C.)*, article 2019.
- [68] J. Fagerström, M. Bång, D. Wilhelms, and M. Chew, "LiSep LSTM: A Machine Learning Algorithm for Early Detection of Septic Shock," *Scientific Reports*, article vol. 9, 2019.
- [69] F. Gao, Z. Tian, E. G. Larsson, M. Pesavento, and S. Jin, "Introduction to the Special Issue on Array Signal Processing for Angular Models in Massive MIMO Communications," *IEEE Journal on Selected Topics in Signal Processing*, Editorial material vol. 13, no. 5, pp. 882-885, 2019.
- [70] A. Ghazanfari, E. Björnson, and E. G. Larsson, "Optimized Power Control for Massive MIMO With Underlaid D2D Communications," *IEEE Transactions on Communications*, article vol. 67, no. 4, pp. 2763-2778, 2019.
- [71] Z. Gülgün and A. Ö. Yılmaz, "Detection Schemes for High Order M-Ary QAM Under Transmit Nonlinearities," *IEEE Transactions on Communications*, article vol. 67, no. 7, pp. 4825-4834, 2019.
- [72] F. J. C. Haverkamp, L. van Gennip, M. Muhrbeck, H. Veen, A. Wladis, and E. C. T. H. Tan, "Global surgery for paediatric casualties in armed conflict," *World Journal of Emergency Surgery*, article vol. 14, 2019.
- [73] J. Hermelin et al., "Operationalising resilience for disaster medicine practitioners : capability development through training, simulation and reflection," *Cognition, Technology & Work*, article 2019.
- [74] Z. H. Ibupoto et al., "MoSx@NiO Composite Nanostructures : An Advanced Nonprecious Catalyst for Hydrogen Evolution Reaction in Alkaline Media," *Advanced Functional Materials*, article vol. 29, no. 7, 2019.
- [75] G. Interdonato, E. Björnson, H. Quoc Ngo, P. Frenger, and E. G. Larsson, "Ubiquitous cell-free Massive MIMO communications," *EURASIP Journal on Wireless Communications and Networking*, Review 2019.
- [76] G. Interdonato, H. Q. Ngo, P. Frenger, and E. G. Larsson, "Downlink Training in Cell-Free Massive MIMO : A Blessing in Disguise," *IEEE Transactions on Wireless Communications*, article vol. 18, no. 11, pp. 5153-5169, 2019.
- [77] M. Isaksson et al., "Assessing(131) I in thyroid by non-spectroscopic instruments - A European intercomparison exercise," *Radiation Measurements*, article vol. 128, 2019.

- [78] H. Jin and P. Papadimitratos, "DoS-resilient cooperative beacon verification for vehicular communication systems," *Ad hoc networks*, article vol. 90, 2019.
- [79] H. Jin and P. Papadimitratos, "Resilient Privacy Protection for Location-Based Services through Decentralization," *ACM Transactions on Privacy and Security (TOPS)*, article vol. 22, no. 4, pp. 1-36, 2019.
- [80] M. Karlsson, E. Björnson, and E. G. Larsson, "Techniques for System Information Broadcast in Cell-Free Massive MIMO," *IEEE Transactions on Communications*, article vol. 67, no. 1, pp. 244-257, 2019.
- [81] T. Klamt et al., "Flexible Disaster Response of Tomorrow: Final Presentation and Evaluation of the CENTAURO System," *IEEE robotics & automation magazine*, article vol. 26, no. 4, pp. 59-72, 2019.
- [82] B. Lowndes et al., "Preliminary Investigation of Civilian Clinician Perspectives & Just-in-Time Guidance for Tourniquet Use to "Stop the Bleed"," *Military Health Sciences System Research Symposium (MHSRS)*, article vol. 184, no. 3-4, pp. 28-36, 2019.
- [83] J. Lundberg and B. Johansson, "Resilience is not a silver bullet - Harnessing resilience as core values and resource contexts in a double adaptive process," *Reliability Engineering & System Safety*, article vol. 188, pp. 110-117, 2019.
- [84] M. Lundqvist, N. Ennab Vogel, and L.-Å. Levin, "Effects of eating breakfast on children and adolescents: A systematic review of potentially relevant outcomes in economic evaluations," *Food & Nutrition Research*, Review vol. 63, 2019.
- [85] S. Lönnqvist, J. Junker, M. Sedell, E. Nyman, and G. Kratz, "Tracking keratinocytes and melanocytes using carboxyfluorescein hydroxysuccinimidyl ester staining," *PLoS ONE*, article vol. 14, no. 8, 2019.
- [86] P. Marana et al., "Towards a resilience management guideline - Cities as a starting point for societal resilience," *Sustainable cities and society*, article vol. 48, 2019.
- [87] F. Mashayekhimazar, J. G. Martinez Gil, M. Tyagi, M. Alijanianzadeh, A. Turner, and E. Jager, "Artificial Muscles Powered by Glucose," *Advanced Materials*, article vol. 31, no. 32, 2019.
- [88] L. Meng, A. Turner, and W. C. Mak, "Modulating Electrode Kinetics for Discrimination of Dopamine by a PEDOT:COOH Interface Doped with Negatively Charged Tricarboxylate," *ACS Applied Materials and Interfaces*, article vol. 11, no. 37, pp. 34497-34506, 2019.
- [89] A. Mirzapoor, A. Turner, A. Tiwari, and B. Ranjbar, "Electrochemical detection of DNA mismatches using a branch-shaped hierarchical SWNT-DNA nano-hybrid bioelectrode," *Materials science & engineering. C, biomimetic materials, sensors and systems*, article vol. 104, 2019.
- [90] D. Mishra and E. G. Larsson, "Optimal Channel Estimation for Reciprocity-Based Backscattering With a Full-Duplex MIMO Reader," *IEEE Transactions on Signal Processing*, article vol. 67, no. 6, pp. 1662-1677, 2019.

- [91] D. Mishra and E. G. Larsson, "Sum Throughput Maximization in Multi-Tag Backscattering to Multiantenna Reader," *IEEE Transactions on Communications*, article vol. 67, no. 8, pp. 5689-5705, 2019.
- [92] E. Mitraka et al., "Electrocatalytic Production of Hydrogen Peroxide with Poly(3,4-ethylenedioxythiophene) Electrodes," *Advanced Sustainable Systems*, article vol. 3, no. 2, pp. 1-6, 2019.
- [93] S. Z. Mousavisani et al., "Integrating an ex-vivo skin biointerface with electrochemical DNA biosensor for direct measurement of the protective effect of UV blocking agents," *Biosensors & bioelectronics*, article vol. 128, pp. 159-165, 2019.
- [94] M. Muhrbeck, K. Holmgren, Z. Osman, J. von Schreeb, A. Wladis, and P. Andersson, "Trends in Demographics and Surgical Treatment of Weapon-Related Limb Injuries Over Two Decades in a Resource-Scarce Setting," *World Journal of Surgery*, article vol. 43, no. 11, pp. 2681-2688, 2019.
- [95] C. Musumeci, M. Vagin, E. Zeglio, L. Ouyang, R. Gabrielsson, and O. Inganäs, "Organic electrochemical transistors from supramolecular complexes of conjugated polyelectrolyte PEDOTS," *Journal of Materials Chemistry C*, article vol. 7, no. 10, pp. 2987-2993, 2019.
- [96] S. Pilemalm, "Using Security Guards and Civil Volunteers as First Responders in Medical Emergency Response - Tasks, Needs, and Challenges," *Prehospital and Disaster Medicine*, article vol. 34, no. 1, pp. 175-176, 2019.
- [97] M. Sadeghi and E. G. Larsson, "Adversarial Attacks on Deep-Learning Based Radio Signal Classification," *IEEE Wireless Communications Letters*, article vol. 8, no. 1, pp. 213-216, 2019.
- [98] M. Sadeghi and E. G. Larsson, "Physical Adversarial Attacks Against End-to-End Autoencoder Communication Systems," *IEEE Communications Letters*, article vol. 23, no. 5, pp. 847-850, 2019.
- [99] F. Santangelo, I. Shteplyuk, D. Filippini, I. G. Ivanov, R. Yakimova, and J. Eriksson, "Real-time sensing of lead with epitaxial graphene-integrated microfluidic devices," *Sensors and actuators. B, Chemical*, article vol. 288, pp. 425-431, 2019.
- [100] F. Santangelo et al., "Epitaxial Graphene Sensors Combined with 3D-Printed Microfluidic Chip for Heavy Metals Detection," *Sensors*, article vol. 19, no. 10, 2019.
- [101] F. Santoni, A. De Angelis, I. Skog, A. Moschitta, and P. Carbone, "Calibration and Characterization of a Magnetic Positioning System Using a Robotic Arm," *IEEE Transactions on Instrumentation and Measurement*, article vol. 68, no. 5, pp. 1494-1502, 2019.
- [102] A. Sekretareva, M. Vagin, A. Volkov, I. Zozoulenko, and M. Eriksson, "Evaluation of the Electrochemically Active Surface Area of Microelectrodes by Capacitive and Faradaic Currents," *CHEMELECTROCHEM*, article vol. 6, no. 17, pp. 4411-4417, 2019.

- [103] M. Selin, M. Tiger, D. Duberg, F. Heintz, and P. Jensfelt, "Efficient Autonomous Exploration Planning of Large Scale 3D-Environments," *IEEE Robotics and Automation Letters*, Letter 2019.
- [104] K. Senel, E. Björnson, and E. G. Larsson, "Joint Transmit and Circuit Power Minimization in Massive MIMO With Downlink SINR Constraints: When to Turn on Massive MIMO?," *IEEE Transactions on Wireless Communications*, article vol. 18, no. 3, pp. 1834-1846, 2019.
- [105] K. Senel, V. Cheng, E. Björnson, and E. G. Larsson, "What Role can NOMA Play in Massive MIMO?," *IEEE Journal on Selected Topics in Signal Processing*, article vol. 13, no. 3, pp. 597-611, 2019.
- [106] I. Shteplyuk, M. Vagin, and R. Yakimova, "Insights into the Electrochemical Behavior of Mercury on Graphene/SiC Electrodes," *C — Journal of Carbon Research*, article vol. 5, no. 3, 2019.
- [107] P. Sundbom et al., "Sound analysis of the magnetically levitated left ventricular assist device HeartMate 3™," *International Journal of Artificial Organs*, article vol. 42, no. 12, pp. 717-724, 2019.
- [108] A. Suska and D. Filippini, "Autonomous lab-on-a-chip generic architecture for disposables with integrated actuation," *Scientific Reports*, article vol. 9, 2019.
- [109] A. Tahira et al., "Advanced Electrocatalysts for Hydrogen Evolution Reaction Based on Core-Shell MoS₂/TiO₂ Nanostructures in Acidic and Alkaline Media," *ACS APPLIED ENERGY MATERIALS*, article vol. 2, no. 3, pp. 2053-2062, 2019.
- [110] A. Tahira et al., "An efficient bifunctional electrocatalyst based on a nickel iron layered double hydroxide functionalized Co₃O₄ core shell structure in alkaline media," *Catalysis Science & Technology*, article vol. 9, no. 11, pp. 2879-2887, 2019.
- [111] A. S. Tsagkaris, J. Pulkrabova, J. Hajslova, and D. Filippini, "A Hybrid Lab-on-a-Chip Injector System for Autonomous Carbofuran Screening," *SENSORS*, article vol. 19, no. 24, 2019.
- [112] M. Vagin et al., "Bioelectrocatalysis on Anodized Epitaxial Graphene and Conventional Graphitic Interfaces," *CHEMELECTROCHEM*, article vol. 6, no. 14, pp. 3791-3796, 2019.
- [113] R. Valiollahi Bisheh et al., "Electrochemical hydrogen production on a metal-free polymer," *SUSTAINABLE ENERGY and FUELS*, article vol. 3, no. 12, pp. 3387-3398, 2019.
- [114] C. Veibäck, G. Hendeby, and F. Gustafsson, "Uncertain Timestamps in Linear State Estimation," *IEEE Transactions on Aerospace and Electronic Systems*, article vol. 55, no. 3, pp. 1334-1346, 2019.
- [115] M. Wiese, T. J. Oechtering, K. H. Johansson, P. Papadimitratos, H. Sandberg, and M. Skoglund, "Secure Estimation and Zero-Error Secrecy Capacity," *IEEE Transactions on Automatic Control*, article vol. 64, no. 3, pp. 1047-1062, 2019.

- [116] A. Wladis, N. Roy, and J. Lofgren, "Lessons for all from the early years of the global surgery initiative," *British Journal of Surgery*, Editorial material vol. 106, no. 2, pp. E14-E16, 2019.
- [117] S. Wu, E. Björnson, C. Mollen, X. Tao, and E. G. Larsson, "Inverse Extrapolation for Efficient Precoding in Time-Varying Massive MIMO-OFDM Systems," *IEEE Access*, article vol. 7, pp. 91105-91119, 2019.
- [118] K. Yousefi Mojir, S. Pilemalm, and T. Andersson Granberg, "Semi-professionals : emergency response as an additional task in current occupations," *International Journal of Emergency Services*, article vol. 8, no. 2, pp. 86-107, 2019.
- [119] M. Zeraatkar, D. Filippini, and G. Percoco, "On the Impact of the Fabrication Method on the Performance of 3D Printed Mixers," *Micromachines*, article vol. 10, no. 5, 2019.
- [120] Y. Zhao, C. Fritsche, G. Hendeby, F. Yin, T. Chen, and F. Gunnarsson, "Cramér–Rao Bounds for Filtering Based on Gaussian Process State-Space Models," *IEEE Transactions on Signal Processing*, article vol. 67, no. 23, pp. 5936-5951, 2019.
- [121] Ö. Özdogan, E. Björnson, and E. G. Larsson, "Massive MIMO With Spatially Correlated Rician Fading Channels," *19th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC)*, article vol. 67, no. 5, pp. 3234-3250, 2019.

Report

- [122] H. Iacobaeus, M. Francisco, C. Nordqvist, J. Sefyrin, K. Skill, and E. Wihlborg, "Digitalt utanförskap : en forskningsöversikt," in "DINO Rapport," Linköping University Electronic Press, Linköping2019 2019, Available: <http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-162407>, Accessed on: 2019-12-02t09:09:48.511+01:00.
- [123] M. Khodaei and P. Papadimitratos, "A Cooperative Location Privacy Protection Scheme for Vehicular Ad-hoc Networks," Stockholm, Sweden2019 2019, Available: <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-253011>, Accessed on: 2019-06-11t14:10:34.438+02:00.
- [124] H. Noroozi, M. Khodaei, and P. Papadimitratos, "VPKIaaS: Towards Scaling Pseudonymous Authentication for Large Mobile Systems," Stockholm, Sweden2019 2019, Available: <http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-253009>, Accessed on: 2019-06-11t14:03:00.163+02:00.
- [125] R. Stenberg, "Framtidens skadeplats: Utvärdera och lära från samverkansövningar : Slutrapport från projektet Lärande utvärdering från samverkansövning och insats inom regional sjöräddningssamverkan," in "CARER Rapport," Linköping University Electronic Press, Linköping2019 2019, Available: <http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-157353>, Accessed on: 2019-06-10t14:08:03.114+02:00.
- [126] R. Stenberg, M. Wolmesjö, and A. Leicht, "Efterforskning av försvunna personer : en internationell forskningsöversikt," in "CARER Rapport," Linköping University Electronic Press, Linköping9789179299750 (ISBN), 2019 2019, Available:

<http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-161289>, Accessed on: 2019-10-28t09:05:00.581+01:00.

Thesis

[127] N. Matinrad, "An Operations Research Approach for Daily Emergency Management," 1842 Licentiate thesis, comprehensive summary, Linköping Studies in Science and Technology. Licentiate Thesis, Linköping University Electronic Press, Linköping, 2019.

FOI

Article

- [1] Ingmar Renhorn and Linnéa Axelsson, "High spatial resolution hyperspectral camera based on exponentially variable filter", *Optical Engineering*, 2019. Volume 58, issue 10;2019
- [2] Ivonne Herrera, Matthieu Branlat, Tor Olav Grøtan, Luca Save, Daniele Ruscio, Rogier Woltjer, Jonas Hermelin, Thomas Feuerle, Peter Förster, Odeya Cohen, Laura Cafiero, Valentina Cedrini, Mauricio Mancini, Giancarlo Ferrara, Giuseppina Mandarino, Luca Rossi, Carl Oscar Jonsson, Euan Morin, Eddie Shawn, Judith Kieran and Meadhbh Costello, "Resilience management guidelines for critical infrastructures, practical solutions addressing expected and unexpected events", *Zenodo*, <https://doi.org/10.5281/zenodo.3368184> ;2019
- [3] Jonas Hermelin, Kristofer Bengtsson, Rogier Woltjer, Mirko Thorstensson, Jiri Trnka, Jenny Pettersson, Erik Prytz and Carl-Oscar Jonsson, "Operationalising resilience for disaster medicine practitioners: capability development through training, simulation and reflection", *Cognition Technology & Work*. Volume 22, issue 3;2019
- [4] Kia Wiklundh and Peter Stenumgaard, "Massive IoT and EMC", *Electronic Environment*, 2019. Volume 4;2019
- [5] Kia Wiklundh and Peter Stenumgaard, "EMC challenges for the era of massive internet of things", *IEEE Challenges for the Era of massive Internet of Things*. Volume 8, issue 2;2019
- [6] Markus Nordberg and Lars Landström, "UV Raman chemical imaging using compressed sensing", *Analyst*, issue 144, February 2019;2019
- [7] Peter Stenumgaard "HF19 - Nordic Conference on HF Communications", *Electronic Environment*, 2019. Volume 3;2019
- [8] Peter Stenumgaard "EMC Europe 2019", *Electronic Environment*, 2019. Volume 3;2019
- [9] Peter Stenumgaard and Sara Linder, "EMC challenges and solar-panel systems", *Electronic Environment*, 2019. Volume 2;2019
- [10] Peter Stenumgaard and Sara Linder, "Practical consequences of electromagnetic interference in wireless applications", *Electronic Environment*, 2019. Volume 4;2019

[11] Teodor Sommestad, Henrik Karlzén and Jonas Hallberg, "The theory of planned behavior and information security policy compliance", Journal of computer information systems. Volume 59, issue 4;2019

Conference paper

[1] Lars Landström, Fredrik Kullander, Pär Wästerby and B.T. Roen, "Passive LWIR hyperspectral imaging of surfaces contaminated by CWA droplets" SPIE Defense + Commercial Sensing, Baltimore, Maryland, USA, 2019-04-14 - 2019-04-18, 2019

[2] Anders Haglund, Per-Olov Fröling and Lars Ulander, "Simulation of effect of periodically missing samples on decoding in passive synthetic aperture radar system using OFDM" IGARSS 2019, IEEE International Geoscience and Remote Sensing Symposium, Yokohama, 2019-07-28 - 2019-08-02, 2019

[3] Andreas Brorsson, Carl Brännlund, David Bergström and David Gustafsson, "Compressed imaging at long range in SWIR" Scandinavian Conference in Image Analysis (SCIA), Norrköping, Sweden, 2019-06-11 - 2019-06-13, 2019

[4] Arwid Komulainen, Jimmi Grönkvist, Ulf Sterner and Ulrika Uppman, "Improving tactical voice communications using cooperative broadcast over a narrowband channel" MILCOM 2019, Norfolk, VA, USA, 2019-11-12 - 2019-11-14, 2019

[5] Björn JE Johansson, Mats Carleby, Jacob Weilandt, Oscar Bjurling and David S Alberts, "An initial assessment of the Endeavour space dimensions" 24th International Command and Control Research and Technology Symposium, ICCRTS 2019, Laurel, Maryland, USA, 2019-10-29 - 2019-10-31, 2019

[6] Carl Brännlund, Andreas Brorsson, David Bergström, David Gustafsson, Martin Oja and Sebastian Olsson, "Detection and localization of light flashes using a single pixel camera in SWIR" NATO SET-265 on Compressive Sensing Applications for Radar/ESM and EI/IR imaging, Salamanca, Spain, 2019-05-06 - 2019-05-07, 2019

[7] Carl Brännlund and David Gustafsson, "Single pixel SWIR imaging using compressed sensing" Svenska sällskapet för automatiserad bildanalys, Linköping, Sweden, 2017-03-13 - 2017-03-13, 2019

[8] Daniel Svedbrand, Lars Allard, Magnus Pettersson, Pontus Köhler, Markus Henriksson and Lars Sjökvist, "Optics detection using an avalanche photo diode array and the scanning slit-method" SPIE Security + Defence, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019

[9] Dennis Granåsen and Margarita Jaitner, "The offensive cyber operations playbook" 18th European Conference on Cyber Warfare and Security, Coimbra, Portugal, 2019-07-04 - 2019-07-05, 2019

[10] Elena Cherkaev, Sébastien Guenneau, Harsha Hutridurga and Niklas Wellander, "Quasiperiodic Composites: Multiscale Reiterated Homogenization" 13th International Congress on Artificial Materials for Novel Wave Phenomena - Metamaterials 2019, Rome, Italy, 2019-09-16 - 2019-09-21, 2019

- [11] Elena Cherkaev, Sébastien Guenneau and Niklas Wellander, "Forward and inverse homogenization of the electromagnetic properties of a quasiperiodic composite" URSI EM Theory Symposium, EMTS 2019, San Diego, USA, 2019-05-27 - 2019-05-31, 2019
- [12] Farzad Kamrani, Linus Luotsinen, Rikke Amilde Lövlid, "Learning objective agent behavior using a data-driven modeling approach" 2016 IEEE International Conference on Systems, Man and Cybernetics (SMC), Budapest, Hungary, 2016-10-09 - 2016-10-12, 2019
- [13] Fredrik Hemström, Fredrik Näsström, Jörgen Karlholm, "Detecting and classifying small objects in thermal imagery using a deep neural network" SPIE Security + Defence: Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [14] Fredrik Johansson, "Supervised classification of Twitter accounts based on textual content of tweets" CLEF 2019 Evaluation Labs and Workshop, Lugano, Switzerland, 2019-09-09 - 2019-09-12, 2019
- [15] Fredrik Johansson, Tim Isbister, "FOI cross-domain authorship attribution for criminal investigations" CLEF 2019 Evaluation Labs and Workshop, Lugano, Switzerland, 2019-09-09 - 2019-09-12, 2019
- [16] Fredrik Kullander, Pär Wästerby, Hampus Lundén, Lars Landström, "Progress in the field of ultraviolet raman cross section determination of low-volatile chemical warfare agents" 13th CBRNe Protection Symposium, Malmö, Sweden, 2019-09-24 - 2019-09-26, 2019
- [17] Henric Östmark, Carina Eldsäter, C., de Klerk, W., van der Heijden, A., Weiser, V., Herrmann, M, "Half a century of EU reserach on energetic materials" 50th International Annual conference ICT, Karlsruhe, Germany, 2019-06-25 - 2019-06-28, 2019
- [18] Jan Joris Roessingh, Armon Toubman, Joost van Oijen, Gerald Poppinga, Rikke Amilde Lövlid, Mingh Hou, Linus Luotsinen, "Machine learning techniques for autonomous agents in military simulations - Multum in Parvo" 2017 IEEE International Conference on Systems, Man and Cybernetics (SMC), Banff, Canada, 2017-10-05 - 2017-10-08, 2019
- [19] Jan Torgrimsson, Lars Ulander, Patrik Dammert, "Factorized Geometrical Autofocus at UHF-band" IGARSS 2019, IEEE International Geoscience and Remote Sensing Symposium, Yokohama, 2019-09-23 - 2019-09-27, 2019
- [20] Johan Nordström, Björn JE Johansson, "Inter-organisational learning - a review of knowledge sharing in post-exercise reports" 16th International Conference on Information Systems for Crisis Response and Management (ISCRAM), Valencia, Spain, 2019-05-20 - 2019-05-22, 2019
- [21] Judith van de Kuijt, Magnus Rosell, Ronnie Johansson, "Disinformation in the cyber domain: detection, impact and counter-strategies" 24th International Command and Control Research and Technology Symposium, ICCRTS 2019, Laurel, Maryland, USA, 2019-10-29 - 2019-10-31, 2019

[22] Karina Fors, Erik Axell, Sara Linder, Peter Stenumgaard, "On the impact of CW interference in 5G NR" EMC Europe 2019 International Symposium on Electromagnetic Compatibility, Barcelona, Spain, 2019-09-02 - 2019-09-06, 2019

[23] Kristoffer Hägglund, Erik Axell, "Adaptive demodulation in Class A impulse noise channels" GLOBECOM, Hawaii, USA, 2019-12-09 - 2019-12-13, 2019

[24] Lars Ulander, Albert R. Monteith, Per-Olov Frörlind, Anders Gustavsson, Anders Haglund, Rolf Ragnarsson, Gunnar Stenström, "Airborne SAR for calibration of P-band tower radar" IGARSS 2019, IEEE International Geoscience and Remote Sensing Symposium, Yokohama, 2019-07-28 - 2019-08-02, 2019

[25] Linnéa Axelsson, Fredrik Kullander, Lars Landström, "Experimenta study of chemical detection on surfaces using an uncooled hyperspectral longwave infrared camera" 13th CBRNe Protection Symposium, Malmö, Sweden, 2019-09-24 - 2019-09-26, 2019

[26] Linus Luotsinen, "POPSIM: A platform targeting the modeling and simulation of human populations in urban environments" Proceedings of the 7th International ICST Conference on Simulation tools and Techniques (SIMUTools 14), Lisbon, Portugal, 2014-03-17 - 2014-03-19, 2019

[27] Linus Luotsinen, Farshad Moradi, Mats Walldén, "An agent-based serious gaming application targeting the training of military staffs in urban operations" Proceedings of the NATO Symposium on Integrating Modelling & Simulation in the Defence Acquisition Lifecycle and Military Training Curriculum (MSG-126), Washington DC, USA, 2014-10-23 - 2014-10-24, 2019

[28] Linus Luotsinen, Farzad Kamrani, Peter Hammar, Magnus Jändel, Rikke Amilde Lövlid, "Evolved creative intelligence for computer generated forces" 2016 IEEE International Conference on Systems, Man and Cybernetics (SMC), Budapest, Hungary, 2016-10-09 - 2016-10-12, 2019

[29] Linus Luotsinen, Rikke Amild Lövlid, "Data-driven behavior modeling for computer generated forces" MSG-133 Symposium on M&S Support to Operational Tasks Including War, Gaming, Logistics, Cyber Defence, Munich, Germany, 2015-10-15 - 2015-10-16, 2019

[30] Magnus Bergh, Andreas Helte, Olof Andersson, Anders Odell, "Effect of pressure pulse duration and lateral distribution on fragment impact initiation of high explosives" 16th International Detonation Symposium, Cambridge, MD, USA, 2018-07-15-2018-07-20, 2019

[31] Maja Karasalo, Johan Schubert, "Developing horizon scanning methods for the discovery of scientific trends" 2019 International Conference on Document Analysis and Recognition (ICDAR), Sydney, Australia, 2019-09-20 - 2019-09-25, 2019

[32] Mari Olsén, Niklas Hallberg, Kristoffer Darin Mattsson, "Who learns from crisis management exercises: an explorative study" ISCRAM Conference, Valencia, Spain, 2019-05-19 - 2019-05-22, 2019

- [33] Maria Andersson, "Deep learning for behaviour recognition in surveillance applications" SPIE Security + Defence: Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [34] Maria Axelsson, Jörgen Karlholm, Ulf Söderman, "Building detection and roof type classification in low resolution photogrammetric point clouds from aerial imagery" The Third Swedish Symposium on deep Learning (SSDL), Norrköping, Sweden, 2019-06-10 - 2019-06-11, 2019
- [35] Markus Henriksson, Carl Brännlund, "Investigations of incoherent beam combining using stochastic parallel gradient descent with retroreflector target" SPIE Security + Defence, Technologies for Optical Countermeasures XVI, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [36] Max Widarsson, Markus Henriksson, Patrick Mutter, Carlota Canalias, as Pasiskevicius, Fredrik Laurell, "Mid-infrared ranging facilitated through intra-cavity up-conversion" Workshop on Information Optics 2019, Stockholm, Sweden, 2019-07-01 - 2019-07-05, 2019
- [37] Niklas Wellander, Mattias Elfsberg, Hanna Sundberg, Tomas Hurtig, "Destructive Testing of Electronic Components Based on Absorption Cross Section RC Measurements" EMC Europe 2019, Barcelona, Spain, 2019-09-02 - 2019-09-06, 2019
- [38] Ove Gustafsson, Johan Eriksson, Sebastian Möller, "Ultraviolet transmission measurements along horizontal near ground path in Nordic environment" SPIE Remote Sensing 2019, Environmental Effects on Light Propagation and Adaptive Systems II, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [39] Ove Gustafsson, Johan Eriksson, Sebastian Möller, "Ground-level ozone impact on optical propagation in the ultraviolet wavelength range" Meteorologisk Metodkonferens 2019, Uppsala, Sweden, 2019-10-24 - 2019-10-25, 2019
- [40] Ove Steinvall, "Past and present laser sensing activities at the Swedish Defense Research Agency (FOI)" OSA Laser Congress, Vienna, Austria, 2019-09-29 - 2019-10-03, 2019
- [41] Ove Steinvall, Bengt Ericson, "Remote detection and size estimation of optical apertures" SPIE Security and Defence, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [42] Ove Steinvall, Daniel Svedbrand, Thomas Svensson, "Optical sensing during low visibility conditions" SPIE Security and Defence, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [43] Patrik Eliardsson, Erik Axell, Arwid Komulainen, Kia Wiklundh, Sara Örn Tengstrand, "A practical method for BEP estimation of convolutional coding in impulse noise environments" MILCOM 2019, Norfolk, VA, USA, 2019-11-12 - 2019-11-14, 2019
- [44] Patrik Eliardsson, Peter Stenumgaard, "Artificial intelligence for automatic classification on unintentional electromagnetic interference in air traffic control communications" EMC Europe 2019 International Symposium on Electromagnetic Compatibility, Barcelona, Spain, 2019-09-02 - 2019-09-06, 2019

- [45] Per Jonsson, Lars Allard, Maria Axelsson, Fredrik Bissmarck, Markus Henriksson, Mattias Rahm, Lars Sjökvist, Gustav Tolt, "Outdoor 3D imaging with a photon counting system" Workshop on Active Imaging, Saint Louis, France, 2019-11-20 - 2019-11-21, 2019
- [46] Per-Anders Oskarsson, Magdalena Granåsen, Mari Olsén, "Observability of inter-organizational crisis management capability" Human Factors and Ergonomics Society (HFES) 2019 Annual Meeting, Seattle, USA, 2019-10-28 - 2019-11-01, 2019
- [47] Peter Stenumgaard, Sara Linder, "Interference impact from solar-panel systems on HF communications" Nordic HF 2019, Fårö, Sweden, 2019-08-12 - 2019-02-14, 2019
- [48] Peter Stenumgaard, Sara Linder, "Interference impact from solar-panel systems on air-traffic communications" EMC Europe 2019 International Symposium on Electromagnetic Compatibility, Barcelona, Spain, 2019-09-02 - 2019-09-06, 2019
- [49] Pär Eriksson, Niklas Hallberg, "Design to fit - morphological analysis as a tool for exercise design" Proceedings of the 16th ISCRAM Conference, Valencia, Spain, 2019-05-19 - 2019-05-22, 2019
- [50] Rogier Woltjer, Björn JE Johansson, Peter Svenmarck, Per-Anders Oskarsson, "Organisational capability of agile response to crises" Proceedings of the 8th Resilience Engineering Association Symposium: Embracing Resilience: Scaling up and Speeding up, Kalmar, Sweden, 2019-06-24 - 2019-06-27, 2019
- [51] Svante Björklund, "Estimating the number of signal sources in array antenna radar by an empirical threshold" IEEE Radar Conference, Boston, MA, USA, 2019-04-22 - 2019-04-26, 2019
- [52] Svante Björklund, Niclas Wadströmer, "Target detection and classification of small drones by deep learning on radar micro-doppler" International Radar Conference 2019 (RADAR 2019), Toulon, France, 2019-09-23 - 2019-09-27, 2019
- [53] Thomas Svensson, David Gustafsson, Niclas Wadströmer, "A low-cost spatial Fourier transform LWIR hyperspectral camera" SSBA, Gothenburg, Sweden, 2019-03-19 - 2019-03-20, 2019
- [54] Tim Ibister, Fredrik Johansson, "Dick-Preston and Morbo at SemEval-2019 Task 4: Transfer learning for hyperpartisan news deetction" International Workshop on Semantic Evaluation 2019 (SemEval-2019), Minneapolis, USA, 2019-06-06 - 2019-06-07, 2019
- [55] Tomas Hallberg, Hans Kariis, Daniel A Pearcr, Peter Raven, Christopher J Baker, Richard P Moore, "Round robin comparison of BRDF measurements" SPIE Security and Defence, Strasbourg, France, 2019-09-09 - 2019-09-12, 2019
- [56] Tommy Gustafsson, Lars Westerdahl, "Using serious gaming to train operators of critical infrastructure: an industry/experience report" 14th International Conference on Critical Information Infrastructures Security (CRITIS), Linköping, Sweden, 2019-09-23 - 2019-09-25, 2019

Miscellaneous

- [1] Amund Gudmundson Hunstad, Lars Westerdahl, "Datacentrerad säkerhet" FOI-R--4865--SE, 2019-12-12
- [2] Anna Karin Tunemalm, David Lindahl, Birgitta Liljedahl, Magnus Norrmark, "Antagonistiska hot och kemiindustrin" FOI-R--4785--SE, 2019-06-28
- [3] Ann-Sofie Stenerus, Anders Odell, Johan Lindgren, Per Larsson, "Beredskapslagring - en kunskapsöversikt om beredskapslagring som ett verktyg för ökad försörjningsberedskap i Sverige" FOI-R--4644--SE, 2019-01-18
- [4] Arwid Komulainen, Patrik Eliardsson, Arne Lindblad, "Mätningar av störningar från solcellspark" FOI-R--4871--SE, 2019-12-19
- [5] Bernhard Zachhuber, Matilda Ågren, Markus Nordberg, Henric Östmark, Mattias Svanqvist, Martin Glimtoft, Anna Pettersson, Andreas Brorsson, David Bergström, David Gustafsson, "Novel standoff explosives detection - progress in noncontact analysis" FOI-R--4695--SE, 2019-02-20
- [6] Björn JE Johansson, Peter Svenmarck, Per-Anders Oskarsson, Rogier Woltjer, Robert Forsgren, Jonas Allvar, Pär Glendor, "Simuleringsmiljö och scenariobeskrivningar för framtidsstudier av autonoma eller intelligenta enheter" FOI-R--4866--SE, 2019-12-13
- [7] Börje Asp, Erik Axell, Karina Fors, Arwid Komulainen, Sara Linder, "Störnings- och upptäcktsegenskaper för 5G-tekniker" FOI-R--4727--SE, 2019-02-21
- [8] Börje Asp, Erik Axell, Patrik Eliardsson, Tore Lindgren, Jan Nilsson, "5G-tekniker i militära tillämpningar - en skanning av området" FOI-R--4711--SE, 2019-02-26
- [9] Börje Asp, Erik Axell, Sofia Bergström, Kristoffer Hägglund, Arwid Komulainen, Thomas Ranström, Peter Stenumgaard, "Metoder för hantering av dynamiska interferensmiljöer" FOI-R--4870--SE, 2019-12-06
- [10] Börje Asp, Erik Axell, Sofia Bergström, Patrik Eliardsson, Kristoffer Hägglund, Arwid Komulainen, Tore Lindgren, Peter Stenumgaard, "Metoder för hantering av statiska interferensmiljöer" FOI-R--4780--SE, 2019-06-25
- [11] Carl Denward, Bengt Johansson, Daniel Jonsson, Per Larsson, "Sektorsansvar och energiberedskap. Förslag till arbetsmodell för att utforma ett sektorsansvar med förmågor i fokus" FOI-R--4819--SE, 2019-12-10
- [12] Caroline Bildsten, Daniel Eidenskog, Jacob Löfvenberg, Ioana Rodhe, "Fysiska klienter för IT-system - egenskaper och IT-säkerhetseffekter på systemnivå" FOI-R--4701--SE, 2019-01-25
- [13] Charlotte Stenius, Johan Nordström, Kristofer Bengtsson, "Kartläggning av underlag till den nationella risk- och förmågebedömningen" MSB 2019 och vid FOI 2020.
- [14] Charlotte Stenius, Mari Olsén, "Knowledge review - how to make first responders protected, connected and fully aware of risks and threats at the incident site" MSB, MSB1348, 2019, ISSN 978-91-7383-914-3, 2019-02-05

- [15] Charlotte Stenius, Mari Olsén, "Kunskapsöversikt - hur räddningspersonal kan skyddas på skadeplats" MSB, MSB1347, 2019, ISSN 978-91-7383-913-6 , 2019-02-05
- [16] Charlotte Stenius, Peter Svenmarck, Ove Jansson, Susanna Nilsson, Björn JE Johansson, "Analys av behov för ledningsforskning - tekniska, personella och ekonomiska förutsättningar" FOI-R--4850--SE, 2019-12-16
- [17] Christian Valassi, Lars Westerdahl, "Fjärranslutningstekniker för industriella informations- och styrsystem" FOI-R--4751--SE, 2019-04-26
- [18] Christian Valassi, Lars Westerdahl, Amund Gudmundson Hunstad, "NCS3 - förstudie fjärrvärme" FOI-R--4738--SE, 2019-03-27
- [19] Christian Valassi, Martin Karresand, "NCS3 - Komponenter på avstånd. Säkerhetsbeaktanden för direkt adresserbara trådlöst nätverks-anslutna komponenter i industriella informations- och styrsystem" FOI-R--4757--SE, 2019-05-08
- [20] Christoffer Wedebrand, "Allmänheten och totalförsvaret: resultat från en enkät skickad hösten 2018" FOI-R--4771--SE, 2019-05-10
- [21] Christopher Liedke, Christian Goroncy, Anders Elfving, Anneli Ehlerding, Anna Pettersson, Mike Kemp, George Vardulakis, Clara Peters, Martijn Koolloos, Frank Schnürer, Christian Ulrich, Tony Mansfield, "D8.2 Elements for roadmap on European certification, accreditation and standardization for physical security products" EU, 2018, 2019-12-13
- [22] Daniel Eidenskog, Caroline Bildsten, Bodo Endres, "Säkra leveranskedjor för IT-system" FOI-R--4851--SE, 2019-12-10
- [23] Daniel Jonsson, Jenny Ingmarsdotter, Bengt Johansson, Niklas Rossbach, Christoffer Wedebrand, Camilla Eriksson, "Civilt försvar i gråzon" FOI-R--4769--SE, 2019-06-12
- [24] Daniel Oskarsson, Erik Gudmundson, "Avvikelse-detektion i hydrofondata" FOI-R--4698--SE, 2019-02-04
- [25] Gunnar Eriksson, Anders Hansson, Peter Holm, Jimmi Grönkvist, "Vågutbredningsanalys för UAV-stöd i taktiska mobila radionät" FOI-R--4734--SE, 2019-02-11
- [26] Gunnar Eriksson, Peter Holm, Sara Linder, Niklas Wellander, "Estimates of radar field strengths in a vehicular environment" FOI-R--4772--SE, 2019-06-03
- [27] Henrik Karlzén, David Lindahl, "Operationer i cyberdomänen - en inledande forskningsplan" FOI-R--4686--SE, 2019-03-01
- [28] Henrik Karlzén, Ove Jansson, Johan Bengtsson, Caroline Bildsten, Christian Valassi, "Verksamhetsanalys - genomförande och betydelse för säkra IT-system" FOI-R--4857--SE, 2019-12-20
- [29] Jacob Löfvenberg, Teodor Sommestad, Caroline Bildsten, "Automatisk attackkodgenerering - en skanning av forskningsfronten" FOI-R--4737--SE, 2019-03-25
- [30] Jan Svedin, Andreas Gustafsson, Anders Bernland, Per-Olov Fröling, Tomas Boman, "Slutsatser från användning av radarsensor på liten UAV" FOI-R--4859--SE, 2019-12-20

- [31] Jenny Ingemarsdotter, Daniel Jonsson, "Kunskapsbehov för ett totalförsvar i förändring" FOI-R--4770--SE, 2019-07-05
- [32] Joel Brynielsson, Mattias Nilsson, Johan Schubert, Peter Svenmarck, "Artificiell intelligens för beslutsstöd i ledningssystem" FOI-R--4678--SE, 2019-05-28
- [33] Johan Bengtsson, Henrik Karlzén, "Riskhantering för IT-system - tolv år av forskning och teknikutveckling" FOI-R--4835--SE, 2019-12-19
- [34] Johan Nordström, Susanna Nilsson, Mari Olsén, "Principer för effektivare anskaffning av ledningsstödsystem: en litteraturstudie" FOI-R--4853--SE, 2019-12-11
- [35] Johana Thelaus, Per Wikberg, Ulrika Allard Bengtsson, Joakim Bergqvist, Catarina Flink, Moa Lavander, Erik Salaneck, Siamak Zohari, "Civil-militär samverkan inom mikrobiologisk beredskapsdiagnostik i samband med höjd beredskap - Delprojekt Övning" Forum för beredskapsdiagnostik, MSB1272, 2019, ISSN 978-91-7383-874-0, 2019-08-15
- [36] Kristoffer Hägglund, "Symmetric alpha-stable adapted demodulation and parameter estimation" Luleå Tekniska Universitet – Institutionen för system- och rymdteknik, Signaler och System, diva2:1244671, 2018, 2019-09-18
- [37] Lars Westerdahl, Johan Bengtsson, "Hotanalys av ett informationssystem för farligt gods" FOI-R--4735--SE, 2019-02-26
- [38] Lisa Kaati, Katie Asplund Cohen, Nazar Akrami, "Ensamagerande våldsverkare. Profiler, riskbedömningar och digitala spår" FOI-R--4736--SE, 2019-02-13
- [39] Magdalena Granåsen, Mari Olsén, "Att leda brandbekämpning eller indirekt eld? Analys av militära ledningssystemens tillämpbarhet för kommunal räddningstjänst" FOI-R--4883--SE, 2019-12-13
- [40] Magnus Gustavsson, "Fördelningsfunktioner för objekt med låg radarmålära" FOI-R--4762--SE, 2019-05-15
- [41] Magnus Höijer, Per Jonsson, Tommy Hult, "Quantum radar - a survey of the science, technology and literature" FOI-R--4854--SE, 2019-12-20
- [42] Magnus Rosell, Ulrika Wickenberg Bolin, Joel Brynielsson, Marianela Garcia Lozano, David Gustafsson, Andreas Horndahl, Maja Karasalo, Björn Pelzer, Karl-Göran Stenborg, Erik Valldor, Stefan Varga, "Semi-automatisk datadriven webbanslys: forskning, prototyputveckling och undersökningar" FOI-R--4692--SE, 2019-09-08
- [43] Maja Karasalo, Johan Schubert, "HSTOOL for horizon scanning of scientific literature" FOI-R--4760--SE, 2019-05-07
- [44] Malin Johansson, "Synchronization of acoustic sensors in a wireless network" Linköpings universitet, LiTH-ISY-EX-ET--19/0485--SE, 2019, 2019-08-22
- [45] Margarita Jaitner, Teodor Sommestad, "Game player - facing structural transformation of cyberspace" Finnish Defence Research Agency, Epilogue, 2019, ISBN 978-951-25-3066-3, 2019-04-12

- [46] Martijn Koolloos, Tony Mansfield, Olaf Henniger, Naser Damer, Pierre Gacon, Christian Ulrich, Frank Schnürer, Erik Kroon, George Vardoulakis, Mike Kemp, Rutger Gaasbeek, Anders Elfving, Anna Pettersson, Anneli Ehlerding, Graeme Voorthuijsen, "D8.1 Evaluation and Certification Approaches for Physical Security Products" EU, 2018, 2019-12-13
- [47] Michael Tulldahl, Joakim Rydell, Jonas Nordlöf, Johan Holmgren, Erik Willén, "Lidar-based positioning in forest environments" SPIE, Electro-Optical Remote Sensing XIII, Proc. SPIE 11160, 2019, 2019-11-21
- [48] Mikael Wedlin, Peter Nilsson, Arwid Komulainen, Farzad Kamrani, Jonathan Svensson, Mikael Krona, Johan Bengtsson, "Polisiära cyberhot, tekniska möjligheter" FOI-R--4739--SE, 2019-05-13
- [49] Niklas Rossbach, Daniel Jonsson, Josefin Öhrn-Lundin, Anna Sundberg, Camilla Trane, Jakob Gustafsson, Sofia Olsson, "Strategisk utblick 8" FOI-R--4773--SE, 2019-05-22
- [50] Niklas Rossbach, Josefin Öhrn-Lundin, Daniel Jonsson, Anna Sundberg, Sofia Olsson, Jakob Gustafsson, Camilla Trane, "Strategic outlook 8: Sweden's total defence - challenges and opportunities" FOI-R--4802--SE, 2019-10-25
- [51] Per Jonsson, Maria Axelsson, Lars Allard, Linnéa Axelsson, Fredrik Bissmarck, Christina Grönwall, Julia Hedborg, Markus Henriksson, Max Holmberg, Fredrik Kullander, Pontus Köhler, Patrik Lif, Jonas Nordlöf, Hannes Ovren, Mattias Rahm, Lars Sjökvist, Daniel Svedbrand, Ulf Söderman, Gustav Tolt, Michael Tulldahl, "Avbildande lasersensorer - slutrapport för perioden 2017-2019" FOI-R--4874--SE, 2019-12-17
- [52] Per Larsson, "Civilbefälhavare - en övergripande historisk belysning" FOI-R--4795--SE, 2019-09-03
- [53] Per-Anders Oskarsson, Magdalena Granåsen, Mari Olsén, Niklas Hallberg, "Att studera tvärssektoriell krishanteringsförmåga" FOI-R--4791--SE, 2019-10-07
- [54] Pär Eriksson, Erik Zouave, Isabel Green Jonegård, "BALEX DELTA 2018 Pre-exercise evaluation" Helcom 2019, 2019-12-31
- [55] Pär Eriksson, Ulrika Exkersand, "Typfall krisberedskap för länsstyrelserna" FOI-R--4799--SE, 2019-12-17
- [56] Richard Espinola, Weilin Hou, Kimberly Erin Manser, Peter Lutzmann, Olivier Meyer, Guy Potvin, Endre Repasi, Ove Steinvall, Michael Tulldahl, Jose Perez, "Simulation of Active Imaging Systems" NATO Science and Technology Organization, AC/323(SET-219)TP/864, 2019, 2019-10-15
- [57] Riitta Rätty, Christoffer Carstens, Annika Carlsson Kanyama, Per Wikman-Swahn, Karin Mossberg Sonnek, "Test av robusta beslutstödsmetoder - Påverkan av havsnivåhöjning i "Söderhamnsfjärden" i Söderhamns kommun" KTH, TRITA-ABE-RPT-1832, 2018, ISSN 978-91-7873-018-6, 2019-10-11
- [58] Robert Frisk, Lovisa Mickelsson, Frej Welanders, Åke Wiss, Malin Östensson, "Långsiktig förmågebedömning för civilt försvar - underlag till en fortsatt utvecklingsprocess" FOI-R--4646--SE, 2019-10-22

[59] Sara Linder, Karina Fors, Peter Stenumgaard, Johan Hedström, Patrik Eliardsson, Thomas Ranström, Erik Axell, Fredrik Mörnstedt, "Telekonflikt - sammanfattning 2018-2019" FOI-R--4832--SE, 2019-12-10

[60] Tore Lindgren, Patrik Eliardsson, Erik Axell, Peter Johansson, "Rekommendationer avseende detektion av störning och vilseledning av GNSS" FOI-R--4694--SE, 2019-01-16

[61] Viktor Deleskog, Christina Grönwall, Henrik Petersson, "Kommunikationsmodell för sensorfusion. En högnivåmodell för realtidsberäkningar." FOI-R--4649--SE,