Conference paper

[1]   J. Alfredson, B. Johansson, L. Gonzaga Trabasso, J. Schminder, R. Granlund, and R. Gårdhagen, "Design and Distrubutied Human Factors Laboratory Airsystems" presented at the 31st Congress of the International Council of the Aeronautical Sciences,Belo Horizonte, Brazil, September 9-14, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152898

[2]   J. Alfredson, L. G. Trabasso, N. Blomstrand, M. Eckerberg, L. Klamer, J. Ledin, J. Tarander, and M. Bång, "Engine Failure Induced Task Load Transient for Simulation Based Certification Aiding for Aircraft," presented at the AHFE International Conference on Human Factors in Transportation, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152636

[3]   M. Alirezaie, K. Hammar, E. Blomqvist, M. Nyström, and V. Ivanova, "SmartEnv Ontology in E-care@home," presented at the 9th International Semantic Sensor Networks Workshop, Monterey, CA, United States, October 9, 2018, 2018. Available: http://ceur-ws.org/Vol-2213/ http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152707

[4]   T. Andersson Granberg and N. H. T. Nguyen, "Stimulation Based Prediction of the Near-Future Emergency Medical Services System State", presented at the Winter Simulation Conference (WSC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-156225

[5]   O. Andersson, O. Ljungqvist, M. Tiger, D. Axehill, and F. Heintz, "Receding-Horizon Lattice-based Motion Planning with Dynamic Obstacle Avoidance," presented at the 2018 IEEE 57th Annual Conference on Decision and Control (CDC),17-19 December, Miami, Florida, USA, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152131

[6]   M. Z. Aslam, Y. Corre, E. Björnson, and E. G. Larsson, "Large-scale Massive MIMO Network Evaluation Using Ray-based Deterministic Simulations," presented at the 29th IEEE Annual International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-154762

[7]   E. Becirovic, E. Björnson, and E. G. Larsson, "How Much Will Tiny IoT Nodes Profit from Massive Base Station Arrays?," presented at the European Signal Processing Conference (EUSIPCO), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-154134

[8]   A. Berg, J. Ahlberg, and M. Felsberg, "Generating Visible Spectrum Images from Thermal Infrared," presented at the The IEEE Conference on Computer Vision and Pattern Recognition (CVPR) Workshops, Salt Lake City, USA, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149429

[9]   A. Berg, J. Ahlberg, and M. Felsberg, "Generating Visible Spectrum Images from Thermal Infrared," presented at the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-154766

[10]   K. Biswas, S. K. Mohammed, and E. G. Larsson, "Efficient Techniques for Broadcast of System Information in mmWave Communication Systems," presented at the IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-153411

[11]   M. Bonmann, M. A. Andersson, Y. Zhang, X. Yang, A. Vorobiev, and J. Stake, "An Integrated 200-GHz Graphene FET Based Receiver, " presented at the 2018 43rd International Conference on Infrared, Millimeter, and Terahertz Waves (IRMMW-THz 2018), , pp. 1–3, 2018

[12]   T. Bryllert, J. A. Svedin, E. Gandini, N. Llombart, M. Karlsson, V. Drakinskiy, and J. Stake, "220-GHz imaging radar with 1 Hz frame rate using an array of homodyne transceivers," presented at the Passive and Active Millimeter-Wave Imaging XXI, vol. 8259, pp. 4–10, 2018.

[13]   P. Chandhar, D. Danev, and E. G. Larsson, "On the Zero-Forcing Receiver Performance for Massive MIMO Drone Communications," presented at the IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 25-28 June 2018, Kalamata, Greece, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152454

[14]   V. Cheng, E. Björnson, and E. G. Larsson, "Performance Analysis of NOMA in Training-Based Multiuser MIMO Systems," 18th IEEE International Workshop on Signal Processing Advances for Wireless Communications (SPAWC), article vol. 17, no. 1, pp. 372-385, 2018.

[15]   H. V. Cheng, E. Björnson, and E. G. Larsson, "Semi-Closed Form Solution for Sum Rate Maximization in Downlink Multiuser MIMO via Large-System Analysis" presented at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152418

[16]   J. Dahlberg, T. Andersson Granberg, T. Polishchuk, C. Schmidt, and L. Sedov, "Capacity-Driven Automatic Design of Dynamic Aircraft Arrival Routes," presented at the IEEE/AIAA 37th Digital Avionics Systems Conference (DASC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-154139

[17]   T. T. Do, E. Björnson, E. G. Larsson, and S. Mohammad Razavizadeh, "Jamming-Resistant Receivers for the Massive MIMO Uplink," IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), article vol. 13, no. 1, pp. 210-223, 2018.

[18]   J. Fernquist, L. Kaati and R. Schroeder. "Political Bots and the Swedish General Election". 2018 IEEE International Conference on Intelligence and Security Informatics (ISI). Miami, FL, USA. 9-11 Nov, 2018

[19]   D. de Leng and F. Heintz, "Partial-State Progression for Stream Reasoning with Metric Temporal Logic," presented at the International Conference on Principles of Knowledge Representation and Reasoning (KR), Palo Alto, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149896

[20]   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, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149648

[21]   C. Fritsche, U. Orguner, and F. Gustafsson, "Bobrovsky-Zakai Bound for Filtering, Prediction and Smoothing of Nonlinear Dynamic Systems," presented at the 2018 21st International Conference on Information Fusion (FUSION), Cambrdige, UK, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-151671

[22]   C. Fritsche, U. Orguner, E. Özkan, and F. Gustafsson, "Marginal Bayesian Bhattacharyya Bounds for discrete-time filtering," presented at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 10-20 April, Calgary, Canada, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-148405

[23]   A. Ghazanfar, E. Björnson, and E. G. Larsson, "Power Control for D2D Underlay in Multi-cell Massive MIMO Networks," presented at the The 22nd International ITG Workshop on Smart Antennas (WSA 2018), March 14-16, Bochum, Germany, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149566

[24]   B. Grelsson and M. Felsberg, "Improved Learning in Convolutional Neural Networks with Shifted Exponential Linear Units (ShELUs)," presented at the 24th International Conference on Pattern Recognition, ICPR 2018, Beijing, China, 20-24 Aug. 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-151606

[25]   F. Heintz and L. Mannila, "Computational Thinking for All - An Experience Report on Scaling up Teaching Computational Thinking to All Students in a Major City in Sweden," presented at the ACM Technical Symposium on Computer Science Education (SIGCSE), Baltimore, Maryland, USA, February 21-24, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-141853

[26]   K. Holmquist, O. Senel, and M. Felsberg, "Computing a Collision-Free Path using the monogenic scale space," presented at the IROS 2018, Madrid, Spain, October 1-5, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152713

[27]   G. Interdonato, P. Frenger, and E. G. Larsson, "Utility-based Downlink Pilot Assignment in Cell-Free Massive MIMO," presented at the The 22nd International ITG Workshop on Smart Antennas (WSA 2018), March 14-16, Bochum, Germany, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-146247

[28]   G. Interdonato, M. Karlsson, E. Björnson, and E. G. Larsson, "Downlink Spectral Efficiency of Cell-Free Massive MIMO with Full-Pilot Zero-Forcing," presented at the 2018 IEEE Global Conference

on Signal and Information Processing (GlobalSIP), Anaheim, CA, USA, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-154885

[29]		J. Jalden, X. C. Moreno, and I. Skog, "Using the Arduino Due For Teaching Digital Signal Processing," presented at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152421

[30]		F. Järemo Lawin, M. Danelljan, F. S. Khan, P.-E. Forssén, and M. Felsberg, "Density Adaptive Point Set Registration," presented at the The IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Salt Lake City, United States, 18-22 June, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149774

[31]		D. Mishra and E. G. Larsson, "Optimizing Reciprocity-Based Backscattering with a Full-Duplex Antenna Array Reader," presented at the IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-153407

[32]		C. Mollén, U. Gustavsson, T. Eriksson, and E. G. Larsson, "Impact of Spatial Filtering on Distortion From Low-Noise Amplifiers in Massive MIMO Base Stations," 51st IEEE Asilomar Conference on Signals, Systems, and Computers, article vol. 66, no. 12, pp. 6050-6067, 2018.

[33]		M. Nilsson, J. Kvarnström, and P. Doherty, "Planning with Temporal Uncertainty, Resources and Non-Linear Control Parameters," presented at the International Conference on Automated Planning and Scheduling (ICAPS), Palo Alto, California USA, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-151663

[34]		J. Nygårds, V. Deleskog, and G. Hendeby, "Decentralized Tracking in Sensor Networks with Varying Coverage," presented at the 21st International Conference on Information Fusion, Cambridge, UK, July 10-13, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149920

[35]		F. Präntare and F. Heintz, "An Anytime Algorithm for Simultaneous Coalition Structure Generation and Assignment," presented at the PRIMA 2018: Principles and Practice of Multi-Agent Systems: 21st International Conference, Tokyo, Japan, October 29-November 2, 2018, Cham, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152438

[36]		D. A. Robertson et al., "A high frame rate, 340 GHz 3D imaging radar for security," 2018 IEEE Radar Conference (RadarConf18), Oklahoma City, OK, 2018, pp. 0055-0060. doi: 10.1109/RADAR.2018.8378530

[37]		D.A. Robertson, D. G. Macfarlane, R. I. Hunter, S. L. Cassidy, N. Llombart, E. Gandini, T. Bryllert, M. Ferndahl, H. Lindström, J. Tenhunen, H. Vasama, J. Huopana, T. Selkälä, A.-J.i Vuotikka, "The CONSORTIS 16-channel 340-GHz security imaging radar," Proc. SPIE 10634, Passive and Active Millimeter-Wave Imaging XXI, 1063409, 8 May 2018

[38]   M. Sadeghi, E. Björnson, E. G. Larsson, C. Yuen, and T. L. Marzetta, "MRT-BASED JOINT UNICAST AND MULTIGROUP MULTICAST TRANSMISSION IN MASSIVE MIMO SYSTEMS," presented at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152417

[39]   K. Senel, E. Björnson, and E. G. Larsson, "Adapting the Number of Antennas and Power to Traffic Load: When to Turn on Massive MIMO?," presented at the IEEE Wireless Communications and Networking Conference (WCNC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149758

[40]   K. Senel, E. Björnson, and E. G. Larsson, "Human and Machine Type Communications Can Coexist in Uplink Massive MINO Systems," presented at the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-152422

[41]   K. Senel and E. G. Larsson, "Joint User Activity and Non-Coherent Data Detection in mMTC-Enabled Massive MIMO Using Machine Learning Algorithms," presented at the 22nd International ITG workshop on smart antennas (WSA), 2018, Berlin, Germany, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149577

[42]   I. Skog, G. Hendeby, and F. Gustafsson, "Magnetic Odometry - A Model-Based Approach Using A Sensor Array," presented at the 21st International Conference on Information Fusion, Cambridge, UK, July 10-13, 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-149917

[43]   O. Steinvall, L. Sjökvist and P. Jonsson. "Shadows in laser imaging and mapping", Proc. SPIE 10796, Electro-Optical Remote Sensing XII, 9 October 2018

[44]   F. Söderström, U. Melin, I. Lindgren, and Z. Galzie, "Coordinating Public E-services : Investigating Mechanisms and Practices in a Government Agency," presented at the 17th IFIP WG 8.5 International Conference, EGOV 2018, Krems, Austria, September 3-5, 2018, Cham, Switzerland, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-154627

[45]   M. Tiger and F. Heintz, "Gaussian Process Based Motion Pattern Recognition with Sequential Local Models," presented at the Intelligent Vehicles Symposium 2018, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-148724

[46]   C. G. Tsinos, A. Kalantari, S. Chatzinotas, and B. Ottersten, "Symbol-Level Precoding with Low Resolution DACs for Large-Scale Array MU-MIMO Systems," presented at the IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-153412

[47]   T. Van Chien, E. Björnson, E. G. Larsson, and T. A. Le, "Distributed Power Control in Downlink Cellular Massive MIMO Systems," presented at the IEEE 22nd International ITG Workshop on Smart Antennas (WSA2018), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-148936

[48]   D. Verenzuela, E. Björnson, and L. Sanguinetti, "Spectral and Energy Efficiency of Superimposed Pilots in Uplink Massive MIMO," 36th IEEE Global Communications Conference (GLOBECOM), article vol. 17, no. 11, pp. 7099-7115, 2018.

[49]   K. Yousefi Mojir, S. Pilemalm, and T. Andersson Granberg, "User Participation in Information Systems Development for Emerging Public Sector Initiatives," presented at the 27th International Conference on Information Systems Development (ISD2018), August 22-24, Lund, Sweden, 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-150956

[50]   Ö. Özdogan, E. Björnson, and E. G. Larsson, "Uplink Spectral Efficiency of Massive MIMO with Spatially Correlated Rician Fading," presented at the IEEE 19th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2018. Available: http://urn.kb.se/resolve?urn=urn:nbn:se:liu:diva-153408