

## Appendix B: WASP Publications

The following reference list contains the total publication output of the WASP-AS Batch 1 and Batch 2 and WASP-AI Batch 1 PhD students from the beginning of their PhD studies until Jan/Feb 2020. The ambition has been to give an overview of the type of publications that the WASP PhD students generate rather than to provide a complete listing.

### References

- Abdelzaher, T., Y. Hao, K. Jayarajah, A. Misra, S. Yao, P. Skarin, D. Weerakoon, and K.-E. Årzén. “Five Challenges in Cloud-Enabled Intelligence and Control”. English. In: *ACM Transactions on Internet Technology* (Oct. 2019). issn: 1533-5399.
- Abramian, D., M. Larsson, A. Eklund, and H. Behjat. “Improved functional MRI activation mapping in white matter through diffusion-adapted spatial filtering”. In: *arXiv preprint arXiv:1910.11308* (2019).
- Aguila Pla, P. del, V. Saxena, and J. Jaldén. “SpotNet-Learned iterations for cell detection in image-based immunoassays”. In: *2019 IEEE 16th International Symposium on Biomedical Imaging (ISBI 2019)*. IEEE. 2019, pp. 1023–1027.
- Ahlberg, S. “Human-in-the-Loop Control Synthesis for Multi-Agent Systems under Metric Interval Temporal Logic Specifications”. Licentiate Thesis. KTH Royal Institute of Technology, 2019.
- Ahlén, A., J. Åkerberg, M. Eriksson, A. J. Isaksson, T. Iwaki, K. H. Johansson, S. Knorn, T. Lindh, and H. Sandberg. “Toward wireless control in industrial process automation: A case study at a paper mill”. In: *IEEE Control Systems Magazine* 39.5 (2019), pp. 36–57.
- Ahmadi, S. P. and A. Hansson. “Parallel Exploitation for Tree-Structured Coupled Quadratic Programming in Julia”. In: *2018 22nd International Conference on System Theory, Control and Computing (ICSTCC)*. IEEE. 2018, pp. 597–602.
- Ahmadi, S. P., A. Hansson, and S. K. Pakazad. “Efficient Robust Model Predictive Control using Chordality”. In: *2019 18th European Control Conference (ECC)*. IEEE. 2019, pp. 4270–4275.
- Åkesson, A. “DSL for end-user service composition”. In: *2nd International Conference on Art, Science, and Engineering of Programming*. ACM. 2018, pp. 239–240.
- Åkesson, A. and G. Hedin. “Jatte: A tunable tree editor for integrated DSLs”. In: *Proceedings of the 2nd ACM SIGPLAN International Workshop on Comprehension of Complex Systems*. ACM. 2017, pp. 7–12.
- Åkesson, A., G. Hedin, M. Nordahl, and B. Magnusson. “ComPOS: Composing Oblivious Services”. In: *2019 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops)*. IEEE. 2019, pp. 132–138.
- Åkesson, A., M. Nordahl, G. Hedin, and B. Magnusson. “A DSL for Composing IoT Systems”. In: *Proceedings of the 19th International Middleware Conference (Posters)*. Middleware ’18. Rennes, France: ACM, 2018, pp. 17–18. ISBN: 978-1-4503-6109-5. DOI: 10.1145/3284014.3284023. URL: <http://doi.acm.org/10.1145/3284014.3284023>.
- Åkesson, A., M. Nordahl, G. Hedin, and B. Magnusson. “Live programming of internet of things in Palcom”. In: *2nd International Conference on Art, Science, and Engineering of Programming*. ACM. 2018, pp. 121–126.
- Alexandersson, P. and P. Restadh. *LaserTank is NP-complete*. 2019. arXiv: 1908.05966 [cs.CC].
- Algehed, M. “A Perspective on the Dependency Core Calculus”. In: *PLAS 2018*. Vol. 13. 2018, pp. 24–28.
- Algehed, M. and J.-P. Bernardy. “Simple Noninterference from Parametricity”. In: *ICFP 2019*. 2019.
- Algehed, M., K. Claessen, M. Johansson, and N. Smallbone. “QuickSpec: a lightweight theory exploration tool for programmers (system demonstration)”. In: *ACM SIGPLAN Notices*. Vol. 52. 10. ACM. 2017, pp. 38–39.
- Algehed, M. and P. Jansson. “VisPar: Visualising dataflow graphs from the Par monad”. In: *Proceedings of the 6th ACM SIGPLAN International Workshop on Functional High-Performance Computing*. ACM. 2017, pp. 24–29.
- Algehed, M., P. Jansson, S. H. Einarsson, and A. Gerdes. “Saint: An API-Generic Type-Safe Interpreter”. In: *Trends in Functional Programming*. Ed. by M. Pałka and M. Myreen. Cham: Springer International Publishing, 2019, pp. 94–113. ISBN: 978-3-030-18506-0.

- Alghed, M., P. Jansson, S. H. Einarsdóttir, and A. Gerdes. “Saint: an API-generic Type-safe Interpreter”. In: *19th International Symposium on Trends in Functional Programming, TFP 2018, Göteborg, Sweden*. 2018.
- Alghed, M. and A. Russo. “Encoding DCC in Haskell”. In: *Proceedings of the 2017 Workshop on Programming Languages*. 2017, pp. 77–89.
- Alghed, M., A. Russo, and C. Flanagan. “Optimising Faceted Secure Multi-Execution”. In: *Computer Security Foundations Conference (CSF)*. 2019.
- Alistarh, D., T. Hoeffler, M. Johansson, N. Konstantinov, S. Khirirat, and C. Renggli. “The convergence of sparsified gradient methods”. In: *Advances in Neural Information Processing Systems*. 2018, pp. 5973–5983.
- Andersson, O., O. Ljungqvist, M. Tiger, D. Axehill, and F. Heintz. “Receding-Horizon Lattice-based Motion Planning with Dynamic Obstacle Avoidance”. In: *Proceedings of the 57th IEEE Conference on Decision and Control*. 2018.
- Andersson, O., O. Ljungqvist, M. Tiger, D. Axehill, and F. Heintz. “Receding-horizon lattice-based motion planning with dynamic obstacle avoidance”. In: *Proceedings of the 57th IEEE Conference on Decision and Control*. 2018, pp. 4467–4474.
- Andersson, O. and P. Doherty. “DeepRL for Autonomous Robots: Limitations and Safety Challenges”. In: *27th European Symposium on Artificial Neural Networks. An early version was presented as poster at the ICML’18 Workshop on Reproducibility in ML*. 2019.
- Andersson, O. and P. Doherty. “Learning Safe Approximations to Motion Planning in Dynamic Uncertain Environments”. In preparation.
- Andersson, O., F. Heintz, and P. Doherty. “Model-Based Reinforcement Learning in Continuous Environments Using Real-Time Constrained Optimization”. In: *Proceedings of the Twenty-Ninth AAAI Conference on Artificial Intelligence (AAAI)*. Ed. by B. Bonet and S. Koenig. AAAI Press, 2015, pp. 2497–2503. ISBN: 978-1-57735-698-1.
- Andersson, O., O. Ljungqvist, M. Tiger, D. Axehill, and F. Heintz. “Receding-horizon lattice-based motion planning with dynamic obstacle avoidance”. In: *2018 IEEE Conference on Decision and Control (CDC)*. IEEE. 2018, pp. 4467–4474.
- Andersson, O., M. Wzorek, and P. Doherty. “Deep Learning Quadcopter Control via Risk-Aware Active Learning”. In: *Proceedings of the Thirty-First AAAI Conference on Artificial Intelligence (AAAI)*. San Francisco, USA, February 4–9: AAAI Press, 2017, pp. 3812–3818.
- Andersson, O., M. Wzorek, P. Rudol, and P. Doherty. “Model-predictive Control With Stochastic Collision Avoidance Using Bayesian Policy Optimization”. In: *2016 IEEE International Conference on Robotics and Automation (ICRA)*. May 2016, pp. 4597–4604. doi: 10.1109/ICRA.2016.7487661.
- Andersson, S. and D. V. Dimarogonas. “Human in the loop least violating robot control synthesis under metric interval temporal logic specifications”. In: *2018 European Control Conference (ECC)*. IEEE. 2018, pp. 453–458.
- Andersson, S., A. Nikou, and D. V. Dimarogonas. “Control synthesis for multi-agent systems under metric interval temporal logic specifications”. In: *IFAC-PapersOnLine* 50.1 (2017), pp. 2397–2402.
- Anistratov, P., B. Olofsson, and L. Nielsen. “Efficient Motion Planning for Autonomous Vehicle Maneuvers Using Duality-Based Decomposition”. In: *9th IFAC Symposium on Advances in Automotive Control*. Orléans, France, 2019.
- Anistratov, P., B. Olofsson, and L. Nielsen. “Lane-Deviation Penalty for Autonomous Avoidance Maneuvers”. In: *14th International Symposium on Advanced Vehicle Control*. Beijing, China, 2018.
- Anistratov, P., B. Olofsson, and L. Nielsen. “Segmentation and Merging of Autonomous At-the-Limit Maneuvers for Ground Vehicles”. In: *14th International Symposium on Advanced Vehicle Control*. Beijing, China, 2018.
- Anjomshoae, S., K. Främling, and A. Najjar. “Explanations of Black-Box Model Predictions by Contextual Importance and Utility”. In: *International Workshop on Explainable, Transparent Autonomous Agents and Multi-Agent Systems*. Springer. 2019, pp. 95–109.
- Anjomshoae, S., A. Najjar, D. Calvaresi, and K. Främling. “Explainable agents and robots: Results from a systematic literature review”. In: *Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems*. International Foundation for Autonomous Agents and Multiagent Systems. 2019, pp. 1078–1088.

- Annell, S., A. Gratner, and L. Svensson. "Probabilistic collision estimation system for autonomous vehicles". In: *Intelligent Transportation Systems (ITSC), 2016 IEEE 19th International Conference on*. IEEE. 2016, pp. 473–478.
- Antonova, R., M. Kokic, J. A. Stork, and D. Kragic. "Global Search with Bernoulli Alternation Kernel for Task-oriented Grasping Informed by Simulation". In: *arXiv preprint arXiv:1810.04438* (2018).
- Årzen, K.-E., P. Skarin, W. Tärneberg, and M. Kihl. "Control Over the Edge Cloud - An MPC Example". In: *Paper presented at 1st International Workshop on Trustworthy and Real-time Edge Computing for Cyber-Physical Systems, Nashville, USA*. 2018.
- Åstrand, M. "Short-term Underground Mine Scheduling: Constraint Programming in an Industrial Application". Licentiate Thesis. KTH Royal Institute of Technology, 2018.
- Åstrand, M., E. Jakobsson, M. Lindfors, and J. Svensson. "A System for Underground Road Condition Monitoring". In: *in submission* ().
- Åstrand, M., M. Johansson, and J. Greberg. "Underground mine scheduling modelled as a flow shop: a review of relevant work and future challenges". In: *Journal of the Southern African Institute of Mining and Metallurgy* 118.12 (2018), pp. 1265–1276.
- Åstrand, M., M. Johansson, and A. Zanarini. "Fleet Scheduling in Underground Mines Using Constraint Programming". In: *International Conference on the Integration of Constraint Programming, Artificial Intelligence, and Operations Research*. Springer. 2018, pp. 605–613.
- Åstrand, M., M. Johansson, and A. Zanarini. "Short-term mine scheduling using CP and LNS". In: *in submission* ().
- Åstrand, M., M. Johansson, and A. Zanarini. "Underground Mine Scheduling of Mobile Machines using Constraint Programming and Large Neighborhood Search". In: *Submitted to the European Journal of Operational Research* ().
- Åstrand, M., K. Saarinen, and S. Sander-Tavallaey. "Surrogate models for design and study of underground mine ventilation". In: *Emerging Technologies and Factory Automation (ETFA), 2017 22nd IEEE International Conference on*. IEEE. 2017, pp. 1–8.
- Auer, F., R. Ros, P. Runeson, and M. Felderer. "Status of Continuous Experimentation". In: *Empirical Software Engineering* (2019). in submission.
- Bäckström, K., M. Nazari, I. Y.-H. Gu, and A. S. Jakola. "An efficient 3D deep convolutional network for Alzheimer's disease diagnosis using MR images". In: *Biomedical Imaging (ISBI 2018), 2018 IEEE 15th International Symposium on*. IEEE. 2018, pp. 149–153.
- Bäckström, K., M. Papatriantafylou, and P. Tsigas. "MindTheStep-AsyncPSGD: Adaptive Asynchronous Parallel Stochastic Gradient Descent". In: *arXiv preprint arXiv:1911.03444* (2019).
- Bahraini, M., M. Zanon, A. Colombo, and P. Falcone. "Optimal Control Laws for Control Invariance in Networked Control Systems (submitted to IFAC)". In: (2020).
- Bahraini, M., M. Zanon, A. Colombo, and P. Falcone. "Receding-horizon robust online communication scheduling for constrained networked control systems". In: *2019 18th European Control Conference (ECC)*. IEEE. 2019, pp. 2969–2974.
- Balliu, M., I. Bastys, and A. Sabelfeld. "Securing IoT apps". In: *IEEE Security & Privacy* 17.5 (2019), pp. 22–29.
- Balouji, E., K. Bäckström, T. McKelvey, and Ö. Salor. "Deep Learning Based Harmonics and Interharmonics Pre-Detection Designed for Compensating Significantly Time-varying EAF Currents". In: *2019 IEEE Industry Applications Society Annual Meeting*. IEEE. 2019, pp. 1–9.
- Bastys, I., F. Piessens, and A. Sabelfeld. "Prudent design principles for information flow control". In: *Proceedings of the ACM Conference on Computer and Communications Security*. 2018, pp. 17–23.
- Bastys, I., M. Balliu, and A. Sabelfeld. "If This Then What?: Controlling Flows in IoT Apps". In: *Proceedings of the 2018 ACM SIGSAC Conference on Computer and Communications Security*. ACM. 2018, pp. 1102–1119.
- Bastys, I., M. Balliu, A. Sabelfeld, and T. Rezk. "Clockwork: Tracking Remote Timing Attacks". In: Bastys, I., F. Piessens, and A. Sabelfeld. "Tracking Information Flow via Delayed Output". In: *Nordic Conference on Secure IT Systems*. Springer. 2018, pp. 19–37.
- Batkovic, I., M. Zanon, M. Ali, and P. Falcone. "Real-Time Constrained Trajectory Planning and Vehicle Control for Proactive Autonomous Driving With Road Users". In: *2019 18th European Control Conference (ECC)*. June 2019, pp. 256–262. doi: 10.23919/ECC.2019.8796099.
- Batkovic, I., M. Zanon, N. Lubbe, and P. Falcone. "A Computationally Efficient Model for Pedestrian Motion Prediction". In: *2018 European Control Conference (ECC)*. June 2018, pp. 374–379.

- Baudry, B., N. Harrand, E. Schulte, C. Timperley, S. H. Tan, M. Selakovic, and E. Ugherughe. “A spoonful of DevOps helps the GI go down”. In: *Proceedings of the 4th International Genetic Improvement Workshop, GI@ICSE 2018, Gothenburg, Sweden, June 2, 2018*. 2018, pp. 35–36. DOI: [10.1145/3194810.3194818](https://doi.org/10.1145/3194810.3194818). URL: <https://doi.org/10.1145/3194810.3194818>.
- Behjat, H. and M. Larsson. “Spectral Characterization of functional MRI data on voxel-resolution cortical graphs”. In: *arXiv preprint arXiv:1910.09507* (2019).
- Behrendt, B., W. Engelke, P. Berg, O. Beuing, B. Preim, I. Hotz, and S. Saalfeld. “Evolutionary Pathlines for Blood Flow Exploration in Cerebral Aneurysms”. In: *Eurographics Workshop on Visual Computing for Biology and Medicine*. Ed. by B. Kozlikova, L. Linsen, P.-P. Vázquez, K. Lawonn, and R. G. Raidou. The Eurographics Association, 2019. ISBN: 978-3-03868-081-9. DOI: [10.2312/vcbm.20191250](https://doi.org/10.2312/vcbm.20191250).
- Benelallam, A., N. Harrand, C. Soto-Valero, B. Baudry, and O. Barais. “The maven dependency graph: a temporal graph-based representation of maven central”. In: *Proceedings of the 16th International Conference on Mining Software Repositories, MSR 2019, 26-27 May 2019, Montreal, Canada*. 2019, pp. 344–348. DOI: [10.1109/MSR.2019.00060](https://doi.org/10.1109/MSR.2019.00060). URL: <https://doi.org/10.1109/MSR.2019.00060>.
- Berg, A., M. Felsberg, G. Häger, and J. Ahlberg. “An overview of the thermal infrared visual object tracking VOT-TIR2015 challenge”. In: *Swedish Symposium on Image Analysis*. 2016.
- Berg, A., J. Johnander, F. Durand de Gevigney, J. Ahlberg, and M. Felsberg. “Semi-automatic annotation of objects in visual-thermal video”. In: *Proceedings of the IEEE International Conference on Computer Vision Workshops*. 2019, pp. 0–0.
- Bergman, K., O. Ljungqvist, T. Glad, and D. Axehill. “An Optimization-Based Receding Horizon Trajectory Planning Algorithm”. *Submitted to Proceedings of the 21th IFAC World Congress*. 2020.
- Bergman, K., O. Ljungqvist, and D. Axehill. “An Optimization-Based Receding Horizon Trajectory Planning Algorithm”. *Submitted to 21st IFAC World Congress, Berlin*. 2020.
- Bergman, K., O. Ljungqvist, and D. Axehill. “Combining homotopy methods and numerical optimal control to solve motion planning problems”. In: *2018 IEEE Intelligent Vehicles Symposium (IV)*. IEEE. 2018, pp. 347–354.
- Bergman, K., O. Ljungqvist, and D. Axehill. “Improved Optimization of Motion Primitives for Motion Planning in State Lattices”. In: *2019 IEEE Intelligent Vehicles Symposium (IV)*. 2019.
- Bergman, K., O. Ljungqvist, and D. Axehill. “Improved Path Planning by Tightly Combining Lattice-based Path Planning and Optimal Control”. *Under review for possible publication in IEEE Transactions on intelligent vehicles*. Pre-print available at arXiv: <https://arxiv.org/abs/1903.07900>. 2019.
- Bergström, A. “Timing-Based Localization using Multipath Information”. Linköping Studies in Science and Technology. Licentiate Thesis No. 1867. Sweden: Linköping University, 2020.
- Bergström, A., G. Hendeby, F. Gunnarsson, and F. Gustafsson. “TOA estimation improvements in multipath environments by measurement error models”. In: *2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*. IEEE, Oct. 2017. DOI: [10.1109/pimrc.2017.8292377](https://doi.org/10.1109/pimrc.2017.8292377).
- Bhat, G., J. Johnander, M. Danelljan, F. Shahbaz Khan, and M. Felsberg. “Unveiling the power of deep tracking”. In: *Proceedings of the European Conference on Computer Vision (ECCV)*. 2018, pp. 483–498.
- Bideh, P. N., M. Höst, and M. Hell. “HAVOSS: A Maturity Model for Handling Vulnerabilities in Third Party OSS Components”. In: *International Conference on Product-Focused Software Process Improvement*. Springer. 2018, pp. 81–97.
- Borg, M., I. Lennerstad, R. Ros, and E. Bjarnason. “On Using Active Learning and Self-training when Mining Performance Discussions on Stack Overflow”. In: *Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering*. ACM. 2017, pp. 308–313.
- Borg, M., T. Olsson, and J. Svensson. “Piggybacking on an Autonomous Hauler: Business Models Enabling a System-of-Systems Approach to Mapping an Underground Mine”. In: *Requirements Engineering Conference (RE), 2017 IEEE 25th International*. IEEE. 2017, pp. 372–381.
- Borin, L. and T. Kosinski. “Towards interactive visualization of public discourse in time and space”. In: *Linköping Electronic Conference Proceedings*. 2016, pp. 1–7. ISBN: 978-91-7685-733-5.
- Boström-Rost, P., D. Axehill, W. D. Blair, and G. Hendeby. “Optimal range and beamwidth for radar tracking of maneuvering targets using nearly constant velocity filters”. In: *Proceedings of IEEE Aerospace Conference*. To appear. Big Sky, MT, USA, 2020.

- Boström-Rost, P., D. Axehill, and G. Hendeby. “Informative path planning for active tracking of agile targets”. In: *Proceedings of IEEE Aerospace Conference*. Big Sky, MT, USA, 2019.
- Boström-Rost, P., D. Axehill, and G. Hendeby. “Informative Path Planning in the Presence of Adversarial Observers”. In: *2019 22nd International Conference on Information Fusion (FUSION)*. Ottawa, Canada, 2019.
- Boström-Rost, P., D. Axehill, and G. Hendeby. “On global optimization for informative path planning”. In: *IEEE Control Systems Letters* 2.4 (2018), pp. 833–838.
- Botev, V., M. Almgren, V. Gulisano, O. Landsiedel, M. Papatriantafidou, and J. van Rooij. “Detecting non-technical energy losses through structural periodic patterns in AMI data”. In: *Big Data (Big Data), 2016 IEEE International Conference on*. IEEE, 2016, pp. 3121–3130.
- Brorsson, J., P. Stankovski, and M. Hell. “Guarding the Guards: Accountable Authorities in VANETs”. In:
- Brynte, L., J. Iglesias, C. Olsson, V. Larsson, and F. Kahl. “[IN SUBMISSION] On the Tightness of Semidefinite Relaxations for Rotation Estimation”. In: *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. June 2020.
- Bütepage, J., S. Cruciani, M. Kokic, M. Welle, and D. Kragic. “From Visual Understanding to Complex Object Manipulation”. In: *Annual Review of Control, Robotics, and Autonomous Systems* 0 (2018).
- Caltagirone, L., S. Scheidegger, L. Svensson, and M. Wahde. “Fast LIDAR-based Road Detection Using Fully Convolutional Neural Networks”. In: *IEEE Intelligent Vehicles Symposium* (2017).
- Carlsson, H., I. Skog, and J. Jalden. “On-the-fly geometric calibration of inertial sensor arrays”. In: *2017 International Conference on Indoor Positioning and Indoor Navigation (IPIN)*. IEEE, Sept. 2017, pp. 1–6. ISBN: 978-1-5090-6299-7. DOI: 10.1109/IPIN.2017.8115879. URL: <http://ieeexplore.ieee.org/document/8115879/>.
- Ceragioli, F., G. Lindmark, C. Veibäck, N. Wahlström, M. Lindfors, and C. Altafini. “A bounded confidence model that preserves the signs of the opinions”. In: *Proceedings of the European Control Conference (ECC), 2016*. 2016, pp. 543–548.
- Chohan, N., M. A. Nazari, H. Wymeersch, and T. Charalambous. “Robust trajectory planning of autonomous vehicles at intersections with communication impairments”. In: *2019 57th Annual Allerton Conference on Communication, Control, and Computing (Allerton)*. 2019, pp. 832–839. doi: 10.1109/ALLERTON.2019.8919923.
- Čičić Mladen Jin, L. and K. H. Johansson. “Coordinating Vehicle Platoons for Highway Bottleneck Decongestion and Throughput Improvement”. In: *Transportation Research Board 99th Annual Meeting*. Washington, D.C., US, 2020.
- Čičić, M. and K. H. Johansson. “Energy-optimal platoon catch-up in moving bottleneck framework”. In: *European Control Conference (ECC)*. Naples, Italy, 2019.
- Čičić, M. and K. H. Johansson. “Stop-and-go Wave Dissipation Using Accumulated Controlled Moving Bottlenecks in Multi-class CTM Framework”. In: *Control and Decision Conference (ECC)*. Nice, France, 2019.
- Čičić, M. and K. H. Johansson. “Traffic regulation via individually controlled automated vehicles: a cell transmission model approach”. In: *21st IEEE International Conference on Intelligent Transportation Systems (ITSC)*. Maui, US, 2018.
- Čičić, M., K.-Y. Liang, and K. H. Johansson. “Platoon merging distance prediction using a neural network vehicle speed model”. In: *IFAC-PapersOnLine* 50.1 (2017), pp. 3720–3725.
- Collares Pereira, G., P. F. Lima, B. Wahlberg, H. Pettersson, and J. Mårtensson. “Linear Time-Varying Robust Model Predictive Control for Discrete-Time Nonlinear Systems\*”. In: *2018 IEEE Conference on Decision and Control (CDC)*. Dec. 2018, pp. 2659–2666. doi: 10.1109/CDC.2018.8618866.
- Collares Pereira, G., P. F. Lima, B. Wahlberg, H. Pettersson, and J. Mårtensson. *Reference Aware Model Predictive Control for Autonomous Vehicles*. Submitted to 2020 IEEE Intelligent Vehicles Symposium (IV). 2020.
- Colombo, A., M. Bahraini, and P. Falcone. “Measurement Scheduling for Control Invariance in Networked Control Systems”. In: *2018 IEEE Conference on Decision and Control (CDC)*. IEEE, 2018, pp. 3361–3366.
- Corcoran, D., L. Andimeh, A. Ermedahl, P. Kreuger, and C. Schulte. “Data driven selection of DRX for energy efficient 5G RAN”. In: *2017 13th International Conference on Network and Service Management (CNSM)*. Nov. 2017, pp. 1–9. doi: 10.23919/CNSM.2017.8255972.

- Corcoran, D., P. Kreuger, and C. Schulte. “Efficient Real-Time Traffic Generation for 5G RAN”. In: *NOMS 2020* (). Apr. 2019. URL: <http://XXXXX/200422.pdf>.
- D’Anvers, J.-P., Q. Guo, T. Johansson, A. Nilsson, F. Vercauteren, and I. Verbauwhede. “Decryption Failure Attacks on IND-CCA Secure Lattice-Based Schemes”. In: *IACR International Workshop on Public Key Cryptography*. Springer. 2019, pp. 565–598.
- Danelljan, M., G. Häger, F. S. Khan, and M. Felsberg. “Coloring channel representations for visual tracking”. In: *Scandinavian Conference on Image Analysis*. Springer, Cham. 2015, pp. 117–129.
- Danelljan, M., G. Häger, F. S. Khan, and M. Felsberg. “Discriminative scale space tracking”. In: *IEEE transactions on pattern analysis and machine intelligence* 39.8 (2017), pp. 1561–1575.
- Danelljan, M., G. Häger, F. Khan, and M. Felsberg. “Accurate scale estimation for robust visual tracking”. In: *British Machine Vision Conference, Nottingham, September 1-5, 2014*. BMVA Press. 2014.
- Danelljan, M., G. Hager, F. Shahbaz Khan, and M. Felsberg. “Adaptive decontamination of the training set: A unified formulation for discriminative visual tracking”. In: *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*. 2016, pp. 1430–1438.
- Danelljan, M., G. Hager, F. Shahbaz Khan, and M. Felsberg. “Convolutional features for correlation filter based visual tracking”. In: *Proceedings of the IEEE International Conference on Computer Vision Workshops*. 2015, pp. 58–66.
- Danelljan, M., G. Hager, F. Shahbaz Khan, and M. Felsberg. “Learning spatially regularized correlation filters for visual tracking”. In: *Proceedings of the IEEE International Conference on Computer Vision*. 2015, pp. 4310–4318.
- Desmarais, C. and C. Holmgren. “Degree distributions of generalized hooking networks”. In: *2019 Proceedings of the Sixteenth Workshop on Analytic Algorithmics and Combinatorics (ANALCO)*. SIAM. 2019, pp. 103–110.
- Desmarais, C. and C. Holmgren. “Normal limit laws for vertex degrees in randomly grown hooking networks and bipolar networks”. In: *arXiv preprint arXiv:1910.13881* (2019).
- Desmarais, C. and H. Mahmoud. “Distances in hooking networks”. Manuscript, submitted. 2019.
- Deyuan Chen Zhiqiang Yang, L. S. and L. Feng. “Impact of Model Accuracy on the Path Planning Algorithm of an Articulated Vehicle”. In: *2020 International Conference on Robotics and Automation (ICRA), (in submission)*. 2019, pp. 5607–5613.
- Diamantopoulos, N., J. Wong, D. I. Mattos, I. Gerostathopoulos, M. Wardrop, T. Mao, and C. McFarland. “Engineering for a Science-Centric Experimentation Platform”. In: *arXiv preprint arXiv:1910.03878* (2019).
- Dimitrakakis, G., B. Liang, and A. Mitrokotsa. “Verifiable Homomorphic Secret Sharing”. In: *Proceedings of ProvSec 2018*. 2018.
- Domova, V., A. Aranda Muñoz, E. Vaara, and P. Edoff. “Feel the Water: Expressing Physicality of District Heating Processes in Functional Overview Displays”. In: *Proceedings of the 2019 ACM International Conference on Interactive Surfaces and Spaces*. ACM. 2019, pp. 229–240.
- Domova, V., M. Ralph, E. Vartiainen, A. A. Muñoz, A. Henriksson, and S. Timsjö. “Re-Introducing Physical User Interfaces into Industrial Control Rooms”. In: *Proceedings of the European Conference on Cognitive Ergonomics 2017*. ACM. 2017, pp. 162–168.
- Domova, V. and S. Sander-Tavallaey. “Visualization for quality health-care: patient flow exploration”. In: *Proceedings of the 2019 IEEE International Conference on Big Data*. IEEE. 2019.
- Domova, V. and G. Zoric. “Towards Effective Industrial Robot Fleet Visualization for Remote Service Applications”. In: *Enabling Technologies: Infrastructure for Collaborative Enterprises (WETICE), 2017 IEEE 26th International Conference on*. IEEE. 2017, pp. 185–190.
- Dooren, D. van, G. Fodor, J. Gross, and K. H. Johansson. “Delay Analysis of Group Handover for Real-Time Control over Mobile Networks”. In: *IEEE Global Communications Conference*. Dec. 2018.
- Dooren, D. van, J. Gross, and K. H. Johansson. “Distributed Contention Resolution in Broadcast Control Systems”. In: *IEEE Conference on Decision and Control*. Dec. 2018.
- Dooren, D. van, S. Schiessl, A. Molin, J. Gross, and K. H. Johansson. “Safety Analysis for Controller Handover in Mobile Systems”. In: *IFAC-PapersOnLine* 50.1 (July 2017), pp. 10090–10095. doi: 10.1016/j.ifacol.2017.08.1782.
- Dura, A. and H. Balldin. “MetaDL: declarative program analysis for the masses”. In: *Proceedings Companion of the 2019 ACM SIGPLAN International Conference on Systems, Programming, Languages, and Applications: Software for Humanity*. ACM. 2019, pp. 17–18.

- Dura, A., H. Balldin, and C. Reichenbach. “MetaDL: Analysing Datalog in Datalog”. In: *Proceedings of the 8th ACM SIGPLAN International Workshop on State Of the Art in Program Analysis*. ACM, 2019, pp. 38–43.
- Dürr, A. and E. A. Topp. “Robot Skill Learning based on Interactively Acquired Knowledge-based Models”. In: *SAIS 2019, 31st Workshop of the Swedish AI Society*. 2019.
- Edpalm, V., A. Martins, K.-E. Årzén, and M. Maggio. “Camera networks dimensioning and scheduling with quasi worst-case transmission time”. English. In: *30th Euromicro Conference on Real-Time Systems, ECRTS 2018*. Vol. 106. Schloss Dagstuhl- Leibniz-Zentrum für Informatik GmbH, Dagstuhl Publishing, June 2018. doi: 10.4230/LIPIcs.ECRTS.2018.17.
- Edpalm, V., A. Martins, M. Maggio, and K.-E. Årzén. *H.264 Video Frame Size Estimation*. English. Technical Reports TFRT-7654. Department of Automatic Control, Lund Institute of Technology, Lund University, 2018.
- Einarsdóttir, S. H. and M. Johansson. “Towards Big Theory Exploration”. In: *5th Conference on Artificial Intelligence and Theorem Proving (AITP 2020)*. 2020.
- Einarsdóttir, S. H., M. Johansson, and J. Åman Pohjola. “Into the Infinite - Theory Exploration for Coinduction”. In: *Artificial Intelligence and Symbolic Computation*. Ed. by J. Fleuriot, D. Wang, and J. Calmet. Cham: Springer International Publishing, 2018, pp. 70–86. ISBN: 978-3-319-99957-9.
- Eker, J., E. Bini, B. Lindoff, and V. Millnert. *Interconnected Hardware Infrastructure Resource Control*. US Patent App. 15/204,164. Aug. 2017.
- Eldesokey, A., M. Felsberg, and F. S. Khan. “Confidence Propagation through CNNs for Guided Sparse Depth Regression”. In: *arXiv preprint arXiv:1811.01791* (2018).
- Eldesokey, A., M. Felsberg, and F. S. Khan. “Confidence propagation through cnns for guided sparse depth regression”. In: *IEEE transactions on pattern analysis and machine intelligence* (2019).
- Eldesokey, A., M. Felsberg, and F. S. Khan. “Ellipse Detection for Visual Cyclists Analysis “In the Wild””. In: *International Conference on Computer Analysis of Images and Patterns*. Springer, 2017, pp. 319–331.
- Eldesokey, A., M. Felsberg, and F. S. Khan. “Propagating Confidences through CNNs for Sparse Data Regression”. In: *arXiv preprint arXiv:1805.11913* (2018).
- Eldesokey, A., M. Felsberg, and F. S. Khan. “Propagating Confidences through CNNs for Sparse Data Regression”. In: *The British Machine Vision Conference (BMVC), Northumbria University, Newcastle upon Tyne, England, UK, 3-6 September, 2018*. 2018.
- Eldesokey, A., M. Persson, M. Felsberg, and F. S. Khan. “Tackling Disturbed Depth Maps by Learning Input Data Confidence”. In: *In preparation* (2020).
- Engelke, W., T. Bin Masood, J. Beran, R. Caballero, and I. Hotz. “Topology-Based Feature Design and Tracking for Multi-Center Cyclones”. In: *InReview*. 2020.
- Engelke, W., T. Bin Masood, J. Beran, R. Caballero, and I. Hotz. “Topology-Based Tracking of Multi-Center Cyclones”. In: *Topology in Visualization*. 2019.
- Engelke, W. and I. Hotz. “Evolutionary Lines for Flow Visualization”. In: *EuroVis 2018 - Short Papers*. Ed. by J. Johansson, F. Sadlo, and T. Schreck. The Eurographics Association, 2018. ISBN: 978-3-03868-060-4. doi: 10.2312/eurovisshort.20181070.
- Engelke, W., K. Lawonn, B. Preim, and I. Hotz. “Autonomous Particles for Interactive Flow Visualization”. In: *Computer Graphics Forum*. Vol. 38. 1. Wiley Online Library, 2019, pp. 248–259. doi: 10.1111/cgf.13528. URL: <https://onlinelibrary.wiley.com/doi/abs/10.1111/cgf.13528>.
- Eriksson, H. and C. Dimitrakakis. “Epistemic Risk-Sensitive Reinforcement Learning”. In: *arXiv preprint arXiv:1906.06273* (2019).
- Evestedt, N., O. Ljungqvist, and D. Axehill. “Motion planning for a reversing general 2-trailer configuration using Closed-Loop RRT”. In: *Proceedings of the 2016 IEEE/RSJ International Conference on Intelligent Robots and Systems*. 2016, pp. 3690–3697.
- Evestedt, N., O. Ljungqvist, and D. Axehill. “Path tracking and stabilization for a reversing general 2-trailer configuration using a cascaded control approach”. In: *2016 IEEE Intelligent Vehicles Symposium (IV)*. June 2016, pp. 1156–1161. doi: 10.1109/IVS.2016.7535535.
- Farooqui, A. H., F. Hagebring, and M. Fabian. “Active Learning of Modular Plant Models”. In: *2020 15th International Workshop on Discrete Event Systems (WODES)*. IEEE, 3001 in submission.
- Farshin, A., A. Roozbeh, G. Q. Maguire Jr, and D. Kostić. “Make the Most out of Last Level Cache in Intel Processors”. In: *Proceedings of the Fourteenth EuroSys Conference 2019*. EuroSys ’19.

- Dresden, Germany: ACM, 2019, 8:1–8:17. ISBN: 978-1-4503-6281-8. DOI: 10.1145/3302424.3303977. URL: <http://doi.acm.org/10.1145/3302424.3303977>.
- Felsberg, M., A. Berg, G. Hager, J. Ahlberg, M. Kristan, J. Matas, A. Leonardis, L. Cehovin, G. Fernandez, T. Vojir, et al. “The thermal infrared visual object tracking VOT-TIR2015 challenge results”. In: *Proceedings of the IEEE International Conference on Computer Vision Workshops*. 2015, pp. 76–88.
- Ferizbegovic, M., M. Galrinho, and H. Hjalmarsson. “Nonlinear FIR identification with model order reduction Steiglitz-McBride”. In: *IFAC-PapersOnLine* 51.15 (2018), pp. 646–651.
- Ferizbegovic, M., M. Galrinho, and H. Hjalmarsson. “Weighted null-space fitting for cascade networks with arbitrary location of sensors and excitation signals”. In: *2018 IEEE Conference on Decision and Control (CDC)*. IEEE, 2018, pp. 4707–4712.
- Ferizbegovic, M., J. Umenberger, H. Hjalmarsson, and T. B. Schön. “Learning Robust LQ-Controllers Using Application Oriented Exploration”. In: *IEEE Control Systems Letters* 4.1 (2019), pp. 19–24.
- Flood, G., D. Gillsjö, A. Heyden, and K. Åström. “Efficient Merging of Maps and Detection of Changes”. English. In: *Image Analysis - 21st Scandinavian Conference, SCIA 2019, Proceedings*. Ed. by M. Felsberg, P.-E. Forssén, J. Unger, and I.-M. Sintorn. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Germany: Springer, 2019, pp. 348–360. ISBN: 9783030202040. DOI: 10.1007/978-3-030-20205-7\_29.
- Flordelis, J., X. Li, O. Edfors, and F. Tufvesson. “Massive MIMO Extensions to the COST 2100 Channel Model: Modeling and Validation”. In: *IEEE Transactions on Wireless Communications* 19.1 (Jan. 2020), pp. 380–394. ISSN: 1558-2248. DOI: 10.1109/TWC.2019.2945531.
- Fors, V. *Optimal Braking Patterns and Forces in Autonomous Safety-Critical Maneuvers*. Vol. 1804. Linköping University Electronic Press, 2018.
- Fors, V., Y. Gao, B. Olofsson, T. J. Gordon, and L. Nielsen. “Real-Time Minimum-Time Lane Change Using the Modified Hamiltonian Algorithm”. In: *25th Symp. Int. Assoc. Veh. Syst. Dyn. (IAVSD)*. Gothenburg, Sweden, 2019.
- Fors, V., B. Olofsson, and L. Nielsen. “Attainable Force Volumes of Optimal Autonomous at-the-limit Maneuvers”. In: (submitted).
- Fors, V., B. Olofsson, and L. Nielsen. “Attainable force volumes of optimal autonomous at-the-limit vehicle manoeuvres”. In: *Vehicle System Dynamics* (2019). to be published, doi: 10.1080/00423114.2019.1608363, pp. 1–22.
- Fors, V., B. Olofsson, and L. Nielsen. “Formulation and interpretation of optimal braking and steering patterns towards autonomous safety-critical manoeuvres”. In: *Vehicle System Dynamics* (2018), pp. 1–18.
- Fors, V., B. Olofsson, and L. Nielsen. “Formulation and interpretation of optimal braking and steering patterns towards autonomous safety-critical manoeuvres”. In: *Vehicle System Dynamics* 57.8 (2019), pp. 1206–1223.
- Fors, V., B. Olofsson, and L. Nielsen. “Formulation and Interpretation of Optimal Braking Patterns in Autonomous Lane-Keeping Maneuvers”. In: *2nd IAVSD Workshop on Dynamics of Road Vehicles*. Berlin, Germany, 2017.
- Fors, V., B. Olofsson, and L. Nielsen. “Slip-angle feedback control for autonomous safety-critical maneuvers at-the-limit of friction”. In: *International Symposium on Advanced Vehicle Control (AVEC)*. 2018.
- Fors, V., B. Olofsson, and L. Nielsen. “Yaw-Moment Control At-the-Limit of Friction Using Individual Front-Wheel Steering and Four-Wheel Braking”. In: *9th IFAC Symp. Advances Automot. Control (AAC)*. Vol. 52. 5. Orléans, France, 2019, pp. 458–464. doi: <https://doi.org/10.1016/j.ifacol.2019.09.073>.
- Galrinho, M., R. Prota, M. Ferizbegovic, and H. Hjalmarsson. “Weighted Null-Space Fitting for Identification of Cascade Networks”. In: *IFAC-PapersOnLine* 51.15 (2018), pp. 856–861.
- Gao, Y., V. Fors, T. Gordon, B. Olofsson, and L. Nielsen. “Real-Time Minimum-Time Lane Change Using the Modified Hamiltonian Algorithm”. In: submitted.
- García, A. S., T. Fernando, D. J. Roberts, C. Bar, M. Cencetti, W. Engelke, and A. Gerndt. “Collaborative virtual reality platform for visualizing space data and mission planning”. In: *Multimedia Tools and Applications* (June 2019). ISSN: 1573-7721. DOI: 10.1007/s11042-019-7736-8. URL: <https://doi.org/10.1007/s11042-019-7736-8>.



- García, S., C. Menghi, P. Pelliccione, T. Berger, and R. Wohlrab. “An Architecture for Decentralized, Collaborative, and Autonomous Robots”. In: *2018 IEEE International Conference on Software Architecture (ICSA)*. Apr. 2018, pp. 75–84. doi: 10.1109/ICSA.2018.00017.
- Gärtner, E., A. Pirinen, and C. Sminchisescu. “Deep Reinforcement Learning for Active Human Pose Estimation”. In: *Proceedings of the AAAI Conference on Artificial Intelligence*. Vol. 34. 2020.
- Gerostathopoulos, I., M. Konersmann, S. Krusche, and D. I. Mattos. “Message from the RCoSE-DDrEE 2019 Workshop Organizers”. In: ().
- Gerostathopoulos, I., M. Konersmann, S. Krusche, and D. I. Mattos. “RCoSE-DDrEE 2019 Organizing Committee”. In: ().
- Gerostathopoulos, I., M. Konersmann, S. Krusche, D. I. Mattos, J. Bosch, T. Bures, B. Fitzgerald, M. Goedicke, H. Muccini, H. H. Olsson, et al. “Continuous Data-driven Software Engineering-Towards a Research Agenda: Report on the Joint 5th International Workshop on Rapid Continuous Software Engineering (RCoSE 2019) and 1st International Works”. In: *ACM SIGSOFT Software Engineering Notes* 44.3 (2019), pp. 60–64.
- Greiff, M. and K. Berntorp. “Optimal Measurement Projections with Adaptive Mixture Kalman Filtering for GNSS Positioning”. In: *2020 Annual American Control Conference (ACC)*. IEEE. 2020.
- Greiff, M., A. Robertsson, and K. Berntorp. “Performance Bounds in Positioning with the VIVE Lighthouse System”. In: *22nd International Conference on Information Fusion (FUSION), Ottawa, Canada, July 2-5, 2019*. 2019.
- Greiff, M. “A Time-Warping Transformation for Time-Optimal Movement in Differentially Flat Systems”. In: *2018 Annual American Control Conference (ACC)*. IEEE. 2018, pp. 6723–6730.
- Greiff, M. and K. Berntorp. “Evaluation of the Discrete Time Feedback Particle Filter for IMU-Driven Systems Configured on SE (2)”. In: *2018 Annual American Control Conference (ACC)*. IEEE. 2018, pp. 5683–5689.
- Greiff, M. and A. Robertsson. “Global Exponentially Stabilising Hybrid Control of Attitude Dynamics on SO(3)”. In: *ISAR contributed papers (2018)* (2018).
- Greiff, M. and A. Robertsson. “Incremental Reference Generation for Nonsingular Control on SE(3)”. In: *2018 IEEE Conference on Control Technology and Applications (CCTA)*. IEEE. 2018, pp. 132–137.
- Greiff, M. and A. Robertsson. “Optimisation-based motion planning with obstacles and priorities”. In: *IFAC-PapersOnLine* 50.1 (2017), pp. 11670–11676.
- Greiff, M., Z. Sun, and A. Robertsson. “Coordination Control of Double-Integrator Systems with Time-Varying Weighed Inputs”. In: *IFAC-PapersOnLine* (2020).
- Greiff, M., Z. Sun, A. Robertsson, and R. Johansson. “Temporal viability regulation for control affine systems with applications to mobile vehicle coordination under time-varying motion constraints”. In: *arXiv preprint arXiv:1811.06350* (2018).
- Greiff, M., Z. Sun, A. Robertsson, and R. Johansson. “Temporal viability regulation for control affine systems with applications to mobile vehicle coordination under time-varying motion constraints”. In: *2019 18th European Control Conference (ECC)*. IEEE. 2019, pp. 3571–3576.
- Grelsson, B. and M. Felsberg. “Improved Learning in Convolutional Neural Networks with Shifted Exponential Linear Units (ShELUs)”. In: *2018 24th International Conference on Pattern Recognition (ICPR)*. IEEE. 2018, pp. 517–522.
- Grelsson, B. and M. Felsberg. “Probabilistic Hough voting for attitude estimation from aerial fisheye images”. In: *Scandinavian Conference on Image Analysis*. Springer. 2013, pp. 478–488.
- Grelsson, B., M. Felsberg, and F. Isaksson. “Efficient 7D aerial pose estimation”. In: *Robot Vision (WORV), 2013 IEEE Workshop on*. IEEE. 2013, pp. 88–95.
- Grelsson, B., M. Felsberg, and F. Isaksson. “Highly accurate attitude estimation via horizon detection”. In: *Journal of Field Robotics* 33.7 (2016), pp. 967–993.
- Grelsson, B., A. Robinson, M. Felsberg, and F. Khan. “HorizonNet for visual terrain navigation”. In: *2018 3rd International Conference on Image Processing, Applications and Systems (IPAS)*. IEEE. 2018, TBD.
- Guo, M., S. Andersson, and D. V. Dimarogonas. “Human-in-the-loop mixed-initiative control under temporal tasks”. In: *2018 IEEE International Conference on Robotics and Automation (ICRA)*. IEEE. 2018, pp. 6395–6400.
- Guo, Q., T. Johansson, and A. Nilsson. “A Generic Attack on Lattice-based Schemes using Decryption Errors with Application to ss-ntru-pke.” In: *IACR Cryptology ePrint Archive 2019* (2019), p. 43.

- Gustafsson, T., W. Engelke, R. Englund, and I. Hotz. “Concepts of Hybrid Data Rendering”. In: *Proceedings of SIGRAD 2017, Visual Computing, August 17-18, 2017, Norrköping, Sweden*. Linköping Electronic Conference Proceedings. Linköping University Electronic Press, Linköpings universitet, 2017.
- Gustafsson, V., H. Nilsson, K. Bäckström, M. Papatriantafilou, and V. Gulisano. “Mimir-Streaming Operators Classification with Artificial Neural Networks”. In: *Proceedings of the 13th ACM International Conference on Distributed and Event-based Systems*. ACM. 2019, pp. 258–259.
- Gustavsson, J. “Verification Methodology for Fully Autonomous Heavy Vehicles”. In: *2016 IEEE International Conference on Software Testing, Verification and Validation, ICST 2016, Chicago, IL, USA, April 11-15, 2016*. 2016, pp. 381–382. DOI: 10.1109/ICST.2016.42. URL: <https://doi.org/10.1109/ICST.2016.42>.
- Hagebring, F., A. H. Farooqui, and M. Fabian. “Modular Supervisory Synthesis for Unknown Plant Models Using Active Learning”. In: *2020 15th International Workshop on Discrete Event Systems (WODES)*. IEEE. 3002 in submission.
- Hagebring, F. and B. Lennartson. “Compositional optimization of discrete event systems”. In: *2018 IEEE 14th International Conference on Automation Science and Engineering (CASE)*. IEEE. 2018, pp. 849–856.
- Hagebring, F. and B. Lennartson. “Time-optimal control of large-scale systems of systems using compositional optimization”. In: *Discrete Event Dynamic Systems* 29.3 (2019), pp. 411–443.
- Hagebring, F., O. Wigström, B. Lennartson, S. I. Ware, and R. Su. “Comparing MILP, CP, and A\* for multiple stacker crane scheduling”. In: *2016 13th International Workshop on Discrete Event Systems (WODES)*. IEEE. 2016, pp. 63–70.
- Häger, G., G. Bhat, M. Danelljan, F. S. Khan, M. Felsberg, P. Rudl, and P. Doherty. “Combining visual tracking and person detection for long term tracking on a uav”. In: *International Symposium on Visual Computing*. Springer, Cham. 2016, pp. 557–568.
- Häger, G., M. Felsberg, and F. S. Khan. “Countering Bias in Tracking Evaluations.” In: *VISIGRAPP (5: VISAPP)*. 2018, pp. 581–587.
- Hallén, M., M. Åstrand, J. Sikström, and M. Servin. “Reinforcement Learning for Grinding Circuit Control in Mineral Processing”. In: *2019 24th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA)*. IEEE. 2019, pp. 488–495.
- Harisubramanyabalaji, S. P., S. ur Réhman, M. Nyberg, and J. Gustavsson. “Improving Image Classification Robustness Using Predictive Data Augmentation”. In: 2018, pp. 548–561. DOI: 10.1007/978-3-319-99229-7\_49. URL: [http://link.springer.com/10.1007/978-3-319-99229-7\\_49](http://link.springer.com/10.1007/978-3-319-99229-7_49).
- Harrand, N., S. Allier, M. Rodriguez-Cancio, M. Monperrus, and B. Baudry. “A journey among Java neutral program variants”. In: *Genetic Programming and Evolvable Machines* 20.4 (2019), pp. 531–580. DOI: 10.1007/s10710-019-09355-3. URL: <https://doi.org/10.1007/s10710-019-09355-3>.
- Harrand, N., A. Benelallam, C. Soto-Valero, O. Barais, and B. Baudry. “Analyzing 2.3 Million Maven Dependencies to Reveal an Essential Core in APIs”. In: *CoRR* abs/1908.09757 (2019). arXiv: 1908.09757. URL: <http://arxiv.org/abs/1908.09757>.
- Harrand, N., C. Soto-Valero, M. Monperrus, and B. Baudry. “The Strengths and Behavioral Quirks of Java Bytecode Decompilers”. In: *19th IEEE International Working Conference on Source Code Analysis and Manipulation*. Cleveland, OH, USA: IEEE Press, 2019.
- Harrand, N., C. Soto-Valero, M. Monperrus, and B. Baudry. “Java Decompiler Diversity and its Application to Meta-decompilation”. In: *Under Review* (2019).
- Henriksson, J., C. Berger, M. Borg, L. Tornberg, C. Englund, S. R. Sathyamoorthy, and S. Ursing. “Towards structured evaluation of deep neural network supervisors”. In: *2019 IEEE International Conference On Artificial Intelligence Testing (AITest)*. IEEE. 2019, pp. 27–34.
- Henriksson, J., C. Berger, M. Borg, L. Tornberg, S. R. Sathyamoorthy, and C. Englund. “Performance Analysis of Out-of-Distribution Detection on Various Trained Neural Networks”. In: *2019 45th Euromicro Conference on Software Engineering and Advanced Applications (SEAA)*. IEEE. 2019, pp. 113–120.
- Henriksson, J., M. Borg, and C. Englund. “Automotive safety and machine learning: Initial results from a study on how to adapt the ISO 26262 safety standard”. In: *2018 IEEE/ACM 1st International Workshop on Software Engineering for AI in Autonomous Systems (SEFAIAS)*. IEEE. 2018, pp. 47–49.

- Hoel, C., K. Driggs-Campbell, K. Wolff, L. Laine, and M. Kochenderfer. “Combining Planning and Deep Reinforcement Learning in Tactical Decision Making for Autonomous Driving”. In: *IEEE Transactions on Intelligent Vehicles* (2019), pp. 1–1. ISSN: 2379-8858. DOI: 10.1109/TIV.2019.2955905.
- Hoel, C., M. Wahde, and K. Wolff. “An Evolutionary Approach to General-Purpose Automated Speed and Lane Change Behavior”. In: *16th IEEE International Conference on Machine Learning and Applications, ICMLA 2017, Cancun, Mexico, December 18-21, 2017*. 2017, pp. 743–748. DOI: 10.1109/ICMLA.2017.00-70. URL: <https://doi.org/10.1109/ICMLA.2017.00-70>.
- Hoel, C., K. Wolff, and L. Laine. “Automated Speed and Lane Change Decision Making using Deep Reinforcement Learning”. In: *CoRR abs/1803.10056* (2018). arXiv: 1803.10056. URL: <http://arxiv.org/abs/1803.10056>.
- Iwaki, T., E. Fridman, and K. H. Johansson. “Event-based switching for sampled-data output feedback control: Applications to cascade and feedforward control”. In: *IEEE Conf. on Decision and Control*. 2019, pp. 2592–2597.
- Iwaki, T., E. Fridman, and K. H. Johansson. “Event-triggered PI control of time-delay systems with parametric uncertainties”. In: Submitted.
- Iwaki, T. and K. H. Johansson. “LQG control and scheduling co-design for wireless sensor and actuator networks”. In: *Proc. of IEEE Workshop on Signal Processing Advances in Wireless Communications*. 2018.
- Iwaki, T. and K. H. Johansson. “On setpoint tracking and disturbance rejection of event-triggered PI control”. In: *SICE International Symposium on Control Systems*. To appear.
- Iwaki, T., J. Wu, and K. H. Johansson. “Event-triggered feedforward control subject to actuator saturation for disturbance compensation”. In: *Proc. of European Control Conf.* 2018, pp. 501–506.
- Iwaki, T., Y. Wu, J. Wu, H. Sansberg, and K. H. Johansson. “Multi-hop sensor network scheduling for optimal remote estimation”. In: (Submitted).
- Iwaki, T., Y. Wu, J. Wu, H. Sansberg, and K. H. Johansson. “Wireless sensor network scheduling for remote estimation under energy constraints”. In: *Proc. of IEEE Conf. on Decision and Control*. 2017, pp. 3362–3367.
- Jakobsson, E., E. Frisk, M. Krysander, and R. Pettersson. “Automated Usage Characterization of Mining Vehicles For Life Time Prediction”. In: (2020).
- Jakobsson, E., E. Frisk, M. Krysander, and R. Pettersson. “Fatigue Damage Monitoring for Mining Vehicles using Data Driven Models”. In: (2020).
- Jakobsson, E., E. Frisk, R. Pettersson, and M. Krysander. “Data driven modeling and estimation of accumulated damage in mining vehicles using on-board sensors”. In: *annual conference of the prognostics and health management society 2017, PHM17*. 2017, pp. 98–107.
- Jaldén, J. “Wireless link adaptation with outdated CSI — a hybrid data-driven and model-based approach”. In: *Wireless Communications and Networking Conference*. 2020.
- Jansson, P., S. H. Einarsdóttir, and C. Ionescu. “Examples and Results from a BSc-level Course on Domain Specific Languages of Mathematics”. In: *Electronic Proceedings in Theoretical Computer Science* 295 (June 2019), pp. 79–90. ISSN: 2075-2180. DOI: 10.4204/eptcs.295.6. URL: <http://dx.doi.org/10.4204/EPTCS.295.6>.
- Jansson, P., S. H. Einarsdóttir, and C. Ionescu. “Examples and results from a BSc-level course on domain specific languages of mathematics”. In: *Proceedings 7th International Workshop on Trends in Functional Programming in Education. EPTCS, Open Publishing Association (2018, in submission). Presented at TFPIE*. 2018.
- Jedra, Y. and A. Proutiere. “Sample Complexity Lower Bounds for Linear System Identification”. In: *arXiv preprint arXiv:1903.10343* (2019).
- Jin, L., M. Čičič, S. Amin, and K. H. Johansson. “Modeling the Impact of Vehicle Platooning on Highway Congestion: A Fluid Queuing Approach”. In: *Proceedings of the 21st International Conference on Hybrid Systems: Computation and Control (part of CPS Week)*. ACM. 2018, pp. 237–246.
- Johnander, J., G. Bhat, M. Danelljan, F. Shahbaz Khan, and M. Felsberg. “On the Optimization of Advanced DCF-Trackers”. In: *Proceedings of the European Conference on Computer Vision (ECCV)*. 2018.
- Johnander, J., M. Danelljan, E. Brissman, F. S. Khan, and M. Felsberg. “A Generative Appearance Model for End-To-End Video Object Segmentation”. In: *The IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*. June 2019.

- Johnander, J., M. Danelljan, E. Brissman, F. S. Khan, and M. Felsberg. “A Generative Appearance Model for End-to-end Video Object Segmentation”. In: *CoRR* abs/1811.11611 (2018). arXiv: 1811.11611. URL: <http://arxiv.org/abs/1811.11611>.
- Johnander, J., M. Danelljan, E. Brissman, F. S. Khan, and M. Felsberg. “A generative appearance model for end-to-end video object segmentation”. In: *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition*. 2019, pp. 8953–8962.
- Johnander, J., M. Danelljan, F. S. Khan, and M. Felsberg. “DCCO: Towards Deformable Continuous Convolution Operators for Visual Tracking”. In: *International Conference on Computer Analysis of Images and Patterns*. Springer. 2017, pp. 55–67.
- Källström, J., R. Granlund, and F. Heintz. “Design of Simulation-Based Pilot Training Systems using Machine Learning Agents”. Accepted. 2020.
- Källström, J. and F. Heintz. “Multi-Agent Multi-Objective Deep Reinforcement Learning for Efficient and Effective Pilot Training”. In: *FT2019. Proceedings of the 10th Aerospace Technology Congress, October 8-9, 2019, Stockholm, Sweden*. 2019, pp. 101–111.
- Källström, J. and F. Heintz. “Reinforcement Learning for Computer Generated Forces using Open-Source Software”. In: *Interservice/Industry Training, Simulation, and Education Conference, December 2-6, 2019, Orlando, USA*. 2019, pp. 1–11.
- Källström, J. and F. Heintz. “Tunable dynamics in agent-based simulation using multi-objective reinforcement learning”. In: *Adaptive and Learning Agents Workshop (ALA-19) at AAMAS, Montreal, Canada, May 13-14, 2019*. 2019, pp. 1–7.
- Kampik, T., A. Malhi, and K. Främling. “Agent-based Business Process Orchestration for IoT”. In: *2019 IEEE/WIC/ACM International Conference on Web Intelligence (WI)*. Oct. 2019, pp. 393–397.
- Kampik, T. “Empathic Agents: A Hybrid Normative/Consequentialistic Approach”. In: *Proceedings of the 18th International Conference on Autonomous Agents and MultiAgent Systems*. AAMAS ’19. Montreal QC, Canada: International Foundation for Autonomous Agents and Multiagent Systems, 2019, pp. 2423–2425. ISBN: 9781450363099.
- Kampik, T. and A. Najjar. “Integrating Multi-agent Simulations into Enterprise Application Landscapes”. In: *Highlights of Practical Applications of Survivable Agents and Multi-Agent Systems. The PAAMS Collection*. Ed. by F. De La Prieta, A. González-Briones, P. Pawleski, D. Calvaresi, E. Del Val, F. Lopes, V. Julian, E. Osaba, and R. Sánchez-Iborra. Cham: Springer International Publishing, 2019, pp. 100–111. ISBN: 978-3-030-24299-2.
- Kampik, T. and A. Najjar. “Technology-Facilitated Societal Consensus”. In: *Adjunct Publication of the 27th Conference on User Modeling, Adaptation and Personalization*. UMAP’19 Adjunct. Larnaca, Cyprus: Association for Computing Machinery, 2019, pp. 3–7. ISBN: 9781450367110. DOI: [10.1145/3314183.3323451](https://doi.org/10.1145/3314183.3323451). URL: <https://doi.org/10.1145/3314183.3323451>.
- Kampik, T., A. Najjar, and D. Calvaresi. “MAS-aided Approval for Bypassing Decentralized Processes: an Architecture”. English. In: *WI 2018: IEEE/WIC/ACM International Conference on Web Intelligence*. Dec. 2018.
- Kampik, T. and J. C. Nieves. “JS-son-A Minimal JavaScript BDI Agent Library”. In: *7th International Workshop on Engineering Multi-Agent Systems (EMAS 2019)*. 2019.
- Kampik, T., J. C. Nieves, and H. Lindgren. “Coercion and deception in persuasive technologies”. In: *20th International Trust Workshop (co-located with AAMAS/IJCAI/ECAI/ICML 2018), Stockholm, Sweden, 14 July, 2018*. CEUR-WS. 2018, pp. 38–49.
- Kampik, T., J. C. Nieves, and H. Lindgren. “Empathic Autonomous Agents”. In: *Engineering Multi-Agent Systems*. Ed. by D. Weyns, V. Mascardi, and A. Ricci. Cham: Springer International Publishing, 2019, pp. 181–201. ISBN: 978-3-030-25693-7.
- Kampik, T., J. C. Nieves, and H. Lindgren. “Explaining Sympathetic Actions of Rational Agents”. In: *Explainable, Transparent Autonomous Agents and Multi-Agent Systems*. Ed. by D. Calvaresi, A. Najjar, M. Schumacher, and K. Främling. Cham: Springer International Publishing, 2019, pp. 59–76.
- Kampik, T., J. C. Nieves, and H. Lindgren. “Implementing Argumentation-Enabled Empathic Agents”. In: *Multi-Agent Systems*. Ed. by M. Slavkovik. Cham: Springer International Publishing, 2019, pp. 140–155. ISBN: 978-3-030-14174-5.
- Kampik, T., J. C. Nieves, and H. Lindgren. “Towards empathic autonomous agents”. In: *6th International Workshop on Engineering Multi-Agent Systems (EMAS 2018), Stockholm, Sweden, 14–15 July, 2018*. 2018.

- Kampik, T. and H. Spieker. “Learning Agents of Bounded Rationality: Rewards Based on Fair Equilibria”. In: (2019).
- Karlsson, J., N. Murgovski, and J. Sjöberg. “Comparison between mixed-integer and second order cone programming for autonomous overtaking”. In: *European control conference*. Limassol, Cyprus, 2018.
- Karlsson, J., N. Murgovski, and J. Sjöberg. “Comparison between mixed-integer and second order cone programming for autonomous overtaking”. In: *2018 European Control Conference (ECC)*. IEEE. 2018, pp. 386–391.
- Karlsson, J., N. Murgovski, and J. Sjöberg. “Computationally Efficient Autonomous Overtaking on Highways”. 2019.
- Karlsson, J., N. Murgovski, and J. Sjöberg. “Computationally Efficient Autonomous Overtaking on Highways”. In: *IEEE Transactions on Intelligent Transportation Systems* (2019).
- Karlsson, J., N. Murgovski, and J. Sjöberg. “Optimal trajectory planning and decision making in lane change maneuvers near a highway exit”. In: *2019 18th European Control Conference (ECC)*. IEEE. 2019, pp. 3254–3260.
- Karlsson, J., N. Murgovski, and J. Sjöberg. “Temporal vs. spatial formulation of autonomous overtaking algorithms”. In: *2016 IEEE 19th International Conference on Intelligent Transportation Systems (ITSC)*. IEEE. 2016, pp. 1029–1034.
- Karlsson, J., J. Sjöberg, N. Murgovski, L. Hanning, S. Luu, V. Olsson, and A. Rasch. “Intersection crossing with reduced number of conflicts”. In: *2018 21st International Conference on Intelligent Transportation Systems (ITSC)*. IEEE. 2018, pp. 1993–1999.
- Karlsson, L., P. N. Bideh, and M. Hell. “A Recommender System for User-Specific Vulnerability Scoring”. In: *14th International Conference on Risk and Security of Internet and Systems, CRISIS 2019*. Springer. 2019.
- Khader, S. A., H. Yin, P. Falco, and D. Kragic. “Probabilistic Model Learning and Long-term Prediction for Contact-rich Manipulation Tasks”. In: *arXiv preprint arXiv:1909.04915* (2019).
- Khan, M. S. N., S. Marchal, S. Buchegger, and N. Asokan. “chownIoT: Enhancing IoT Privacy by Automated Handling of Ownership Change”. In: *IFIP International Summer School on Privacy and Identity Management*. Springer. 2018.
- Khirirat, S., H. R. Feyzmahdavian, and M. Johansson. “Distributed learning with compressed gradients”. In: *arXiv preprint arXiv:1806.06573* (2018).
- Khirirat, S., H. R. Feyzmahdavian, and M. Johansson. “Mini-batch gradient descent: Faster convergence under data sparsity”. In: *Decision and Control (CDC), 2017 IEEE 56th Annual Conference on*. IEEE. 2017, pp. 2880–2887.
- Khirirat, S., M. Johansson, and D. Alistarh. “Gradient compression for communication-limited convex optimization”. In: *2018 IEEE Conference on Decision and Control (CDC)*. IEEE. 2018, pp. 166–171.
- Khirirat, S., S. Magnússon, and M. Johansson. “Compressed Gradient Methods with Hessian-Aided Error Compensation”. In: *arXiv preprint arXiv:1909.10327* (2019).
- Khirirat, S., S. Magnússon, and M. Johansson. “Convergence Bounds for Compressed Gradient Methods with Memory Based Error Compensation”. In: *ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2019, pp. 2857–2861.
- Kim, L., D. S. Drew, V. Domova, and S. Follmer. “User-defined Swarm Robot Control”. In: *Proceedings of the ACM Conference on Computer-Human Interaction (CHI)*. ACM. 2020.
- Knauss, E., G. Liebel, J. Horkoff, R. Wohlrab, R. Kasauli, F. Lange, and P. Gildert. “T-Req: Tool Support for Managing Requirements in Large-Scale Agile System Development”. In: *26th IEEE International Requirements Engineering Conference (RE)*. Aug. 2018, pp. 502–503. doi: 10.1109/RE.2018.00073.
- Kobic, M., D. Kragic, and J. Bohg. “Learning to Estimate Pose and Shape of Hand-Held Objects from RGB Images”. In: *arXiv preprint arXiv:1903.03340* (2019).
- Kobic, M., J. A. Stork, J. A. Haustein, and D. Kragic. “Affordance detection for task-specific grasping using deep learning”. In: *Humanoid Robotics (Humanoids), 2017 IEEE-RAS 17th International Conference on*. IEEE. 2017, pp. 91–98.
- Kokogias, S., L. Svensson, G. C. Pereira, R. Oliveira, X. Zhang, X. Song, and J. Mårtensson. “Development of platform-independent system for cooperative automated driving evaluated in GCDC 2016”. In: *IEEE Transactions on Intelligent Transportation Systems* 19.4 (2018), pp. 1277–1289.

- Konuk, E. and K. Smith. “An empirical study of the relation between network architecture and complexity”. In: *Proceedings of the IEEE International Conference on Computer Vision Workshops*. 2019.
- Korzhitskii, N. *Overview of the Secure Virtual Private LAN Service Testbed*. Scientific Report: Short-Term Scientific Mission, EU COST Action CA15127 RECODIS. 2018.
- Korzhitskii, N. and N. Carlsson. “Certificate Transparency Root Explorer (PRELIMINARY TITLE)”. In: *DRAFT (WTMC 2019 or TMA 2019)* (2019).
- Korzhitskii, N. and N. Carlsson. *Characterizing the Root Landscape of Certificate Transparency Logs*. 2020. arXiv: 2001.04319 [cs.NI].
- Kosinski, T. *Design challenges of privacy controls for IoT systems*. 2019.
- Kosinski, T., M. Obaid, P. W. Wozniak, M. Fjeld, and J. Kucharski. “A fuzzy data-based model for Human-Robot Proxemics”. In: *25th IEEE International Symposium on Robot and Human Interactive Communication, RO-MAN 2016, New York, NY, USA, August 26-31, 2016*. 2016, pp. 335–340. DOI: 10.1109/ROMAN.2016.7745152. URL: <https://doi.org/10.1109/ROMAN.2016.7745152>.
- Kostic, D. “Reexamining Direct Cache Access for Multi-hundred Gigabit-per-second Networks”. In: *Under Review at 17th USENIX Symposium on Networked Systems Design and Implementation - NSDI'20*.
- Kristan, M., A. Leonardis, J. Matas, M. Felsberg, R. Pflugfelder, L. Cehovin Zajc, T. Vojir, G. Bhat, A. Lukezic, A. Eldesokey, et al. “The sixth visual object tracking vot2018 challenge results”. In: *Proceedings of the European Conference on Computer Vision (ECCV)*. 2018.
- Kristan, M., J. Matas, A. Leonardis, M. Felsberg, L. Cehovin, G. Fernandez, T. Vojir, G. Hager, G. Nebehay, and R. Pflugfelder. “The visual object tracking vot2015 challenge results”. In: *Proceedings of the IEEE international conference on computer vision workshops*. 2015, pp. 1–23.
- Kristan, M., J. Matas, A. Leonardis, M. Felsberg, R. Pflugfelder, J.-K. Kamarainen, L. Cehovin Zajc, O. Drbohlav, A. Lukezic, A. Berg, et al. “The seventh visual object tracking vot2019 challenge results”. In: *Proceedings of the IEEE International Conference on Computer Vision Workshops*. 2019, pp. 0–0.
- Krook, J., R. Kianfar, and M. Fabian. “Formal Synthesis of Safe Stop Tactical Planners for an Automated Vehicle”. In: *submitted to Workshop on Discrete Event Systems (WODES)*. 2020.
- Krook, J., L. Svensson, Y. Li, L. Feng, and M. Fabian. “Design and Formal Verification of a Safe Stop Supervisor for an Automated Vehicle”. In: *2019 International Conference on Robotics and Automation (ICRA)*. May 2019, pp. 5607–5613. DOI: 10.1109/ICRA.2019.8793636.
- Krook, J., L. Svensson, Y. Li, L. Feng, and M. Fabian. “Design and Formal Verification of a Safe Stop Supervisor for an Automated Vehicle”. In: *International Conference on Robotics and Automation*. Submitted.
- Krook, J., A. Zita, R. Kianfar, S. Mohejerani, and M. Fabian. “Modeling and Synthesis of the Lane Change Function of an Autonomous Vehicle”. In: *IFAC-PapersOnLine* 51.7 (2018). 14th IFAC Workshop on Discrete Event Systems (WODES), pp. 133–138. ISSN: 2405-8963. DOI: <https://doi.org/10.1016/j.ifacol.2018.06.291>.
- Krook, J., A. Zita, K. Roozbeh, S. Mohajerani, and M. Fabian. “Modeling and Synthesis of the Lane Change Function of An Autonomous Vehicle”. In: *14th Workshop on Discrete Event Systems*. Vol. 51. 7. 2018, pp. 133–138. DOI: 10.1016/j.ifacol.2018.06.291.
- L. Pellaco N. Singh, J. J. “Spectrum prediction and interference detection for satellite communications”. In: *37th International Communications Satellite Systems*. 2019.
- Laaber, C., J. Scheuner, and P. Leitner. “Software microbenchmarking in the cloud. How bad is it really?” In: *Empirical Software Engineering* (Apr. 2019).
- Lager, M. “Smart Technologies for Unmanned Surface Vessels: On the Path Towards Full Automation”. In: (2019).
- Lager, M. and E. A. Topp. “Remote Supervision of an Autonomous Surface Vehicle using Virtual Reality”. In: *IFAC-PapersOnLine* 52.8 (2019), pp. 387–392.
- Lager, M., E. A. Topp, and J. Malec. “Underwater terrain navigation using standard sea charts and magnetic field maps”. In: *2017 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI)*. IEEE. 2017, pp. 78–84.
- Lager, M., E. A. Topp, and J. Malec. “Long-Term Accuracy in Sea Navigation without using GNSS Systems”. In: *30th Annual Workshop of the Swedish Artificial Intelligence Society SAIS 2017, May 15–16, 2017, Karlskrona, Sweden*. 137. Linköping University Electronic Press. 2017, pp. 10–19.

- Lager, M., E. A. Topp, and J. Malec. “Remote Operation of Unmanned Surface Vessel through Virtual Reality”. In: *The Inaugural International Workshop on Virtual, Augmented and Mixed Reality for Human-Robot Interaction (VAM-HRI)*, 2018. 2018.
- Lars Borin, T. K. “Towards interactive visualization of public discourse in time and space”. In: (2016), pp. 1–7. URL: <http://www.ep.liu.se/ecp/126/001/ecp16126001.pdf>.
- Larsson, M., K. Åström, and M. Oskarsson. “Registration and merging maps with uncertainties”. In: *2018 International Conference on Indoor Positioning and Indoor Navigation (IPIN)*. IEEE. 2018, pp. 206–212.
- Larsson, M., V. Larsson, K. Astrom, and M. Oskarsson. “Optimal Trilateration Is an Eigenvalue Problem”. In: *ICASSP 2019-2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2019, pp. 5586–5590.
- Le Tan, C. N., C. Klein, and E. Elmroth. “Location-aware load prediction in edge data centers”. In: *2017 Second International Conference on Fog and Mobile Edge Computing (FMEC)*. IEEE. 2017, pp. 25–31.
- Le, K., K. Zhu, T. Kosinski, M. Fjeld, M. Aj, and S. Zhao. “Ubitile: A Finger-Worn I/O Device for Tabletop Vibrotactile Pattern Authoring”. In: *Proceedings of the 9th Nordic Conference on Human-Computer Interaction, Gothenburg, Sweden, October 23 - 27, 2016*. 2016, p. 87. DOI: 10.1145/2971485.2996721. URL: <https://doi.org/10.1145/2971485.2996721>.
- Lefeber, E., M. Greiff, and A. Robertsson. “Filtered Output Feedback Tracking Control of a Quadrotor UAV”. In: *IFAC-PapersOnLine* (2020).
- Leitinger, E., S. Grebien, X. Li, F. Tufvesson, and K. Witrissal. “On the Use of Mpc Amplitude Information in Radio Signal Based Slam”. In: *2018 IEEE Statistical Signal Processing Workshop (SSP)*. June 2018, pp. 633–637. DOI: 10.1109/SSP.2018.8450734.
- Li, X., K. Batstone, K. Åstrom, M. Oskarsson, C. Gustafson, and F. Tufvesson. “Robust phase-based positioning using massive MIMO with limited bandwidth”. In: *2017 IEEE 28th Annual International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC)*. Oct. 2017, pp. 1–7. DOI: 10.1109/PIMRC.2017.8292362.
- Li, X., E. Leitinger, M. Oskarsson, K. Åström, and F. Tufvesson. “Massive MIMO-Based Localization and Mapping Exploiting Phase Information of Multipath Components”. In: *IEEE Transactions on Wireless Communications* 18.9 (Sept. 2019), pp. 4254–4267. ISSN: 1558-2248. DOI: 10.1109/TWC.2019.2922264.
- Li, X., E. Leitinger, M. Oskarsson, K. Åström, and F. Tufvesson. “Massive MIMO-based Localization and Mapping Exploiting Phase Information of Multipath Components”. In: *CoRR* abs/1811.04494 (2018). arXiv: 1811.04494. URL: <http://arxiv.org/abs/1811.04494>.
- Lima, P. F., G. C. Pereira, J. Mårtensson, and B. Wahlberg. “Experimental validation of model predictive control stability for autonomous driving”. In: *Control Engineering Practice* 81 (2018), pp. 244–255. ISSN: 0967-0661. DOI: <https://doi.org/10.1016/j.conengprac.2018.09.021>. URL: <http://www.sciencedirect.com/science/article/pii/S0967066118305926>.
- Lima, P. F., G. C. Pereira, J. Mårtensson, and B. Wahlberg. “Progress Maximization Model Predictive Controller”. In: *2018 IEEE 21st International Conference on Intelligent Transportation Systems (ITSC)*. 2018.
- Lima, P. F., R. Oliveira, J. Mårtensson, and B. Wahlberg. “Minimizing long vehicles overhang exceeding the drivable surface via convex path optimization”. In: *Intelligent Transportation Systems (ITSC), 2017 IEEE 20th International Conference on*. IEEE. 2017, pp. 1–8.
- Lindfors, M. “Frequency Tracking for Speed Estimation”. Licentiate Thesis. Linköping University, 2018.
- Lindfors, M., G. Hendeby, F. Gustafsson, and R. Karlsson. “Frequency Tracking of Wheel Vibrations”. In: *IEEE Transactions on Control Systems Technology* (2018). Submitted.
- Lindfors, M., G. Hendeby, F. Gustafsson, and R. Karlsson. “On Frequency Tracking in Harmonic Acoustic Signals”. In: *Proceedings of the 2017 20th International Conference on Information Fusion (FUSION)*. Xi’an, China, 2017, pp. 1516–1523.
- Lindfors, M., G. Hendeby, F. Gustafsson, and R. Karlsson. “Vehicle Speed Tracking Using Chassis Vibrations”. In: *Proceedings of the IEEE Intelligent Vehicles Symposium (IV)*. Gothenburg, Sweden, 2016, pp. 214–219.
- Lindvall, M., J. Molin, and J. Löwgren. “From Machine Learning to Machine Teaching: The Importance of UX”. In: *Interactions* 25.6 (Oct. 2018), pp. 52–57. ISSN: 1072-5520. DOI: 10.1145/3282860. URL: <http://doi.acm.org/10.1145/3282860> (visited on 01/16/2019).

- Lindvall, M., J. Molin, and J. Löwgren. "The Importance of UX for Machine Teaching". en. In: *2018 AAAI Spring Symposium Series*. Mar. 2018. URL: <https://www.aaai.org/ocs/index.php/SSS/SSS18/paper/view/17564> (visited on 01/16/2019).
- Ling, G., K. Lindsten, O. Ljungqvist, J. Löfberg, C. Norén, and C. A. Larsson. "Fuel-efficient Model Predictive Control for Heavy Duty Vehicle Platooning using Neural Networks". In: *Proceedings of the 2018 Annual American Control Conference (ACC)*. June 2018, pp. 3994–4001.
- Lissy Pellaco Singh Nirankar, J. J. "Spectrum prediction and interference detection for satellite communications". In: *37th International Communications Satellite Systems Conference*. 2019.
- Ljungqvist, O. and D. Axehill. "A predictive path-following controller for multi-steered articulated vehicles". *Submitted to Proceedings of the 21th IFAC World Congress*. 2020.
- Ljungqvist, O., D. Axehill, and A. Helmersson. "Path following control for a reversing general 2-trailer system". In: *2016 IEEE 55th Conference on Decision and Control (CDC)*. Dec. 2016, pp. 2455–2461. DOI: 10.1109/CDC.2016.7798630.
- Ljungqvist, O., D. Axehill, and J. Löfberg. "On stability for state-lattice trajectory tracking control". In: *Proceedings of the 2018 American Control Conference, Milwaukee*. June 2018.
- Ljungqvist, O., D. Axehill, and H. Pettersson. "On sensing-aware model predictive path-following control for a reversing general 2-trailer with a car-like tractor". *Submitted to Proceedings of the 2020 IEEE International Conference on Robotics and Automation (ICRA)*. 2020.
- Ljungqvist, O., K. Bergman, and D. Axehill. "Optimization-based motion planning for multi-steered articulated vehicles". *Submitted to Proceedings of the 21th IFAC World Congress*. 2020.
- Ljungqvist, O., N. Evestedt, D. Axehill, M. Cirillo, and H. Pettersson. "A motion planning and control framework for a self-driving truck and trailer system". In: *Journal of Field Robotics* (Under review).
- Ljungqvist, O., N. Evestedt, D. Axehill, M. Cirillo, and H. Pettersson. "A path planning and path-following control framework for a general 2-trailer with a car-like tractor". In: *Journal of Field Robotics* 36.8 (2019), pp. 1345–1377.
- Ljungqvist, O., N. Evestedt, M. Cirillo, D. Axehill, and O. Holmer. "Lattice-based motion planning for a general 2-trailer system". In: *Proceedings of the 2017 IEEE Intelligent Vehicles Symposium, Los Angeles*. June 2017, pp. 2455–2461.
- Lourenço, I., B. Wahlberg, and R. Ventura. "Teaching robots to perceive time—A reinforcement learning approach (Extended version)". In: *arXiv preprint arXiv:1912.10113* (2019).
- Lubbe, N., H. Jeppsson, A. Ranjbar, J. Fredriksson, J. Bårgman, and M. Östling. "Predicted road traffic fatalities in Germany: the potential and limitations of vehicle safety technologies from passive safety to highly automated driving". In: ().
- Luciani, D. T., M. Lindvall, and J. Löwgren. "Machine learning as a design material: a curated collection of exemplars for visual interaction". en. In: *DS 91: Proceedings of NordDesign 2018*. Linköping, Sweden: Design Society, 2018, p. 10. ISBN: 978-91-7685-185-2.
- Mahloo, M., J. M. Soares, and A. Roozbeh. "Techno-economic framework for cloud infrastructure: A cost study of resource disaggregation". In: *2017 Federated Conference on Computer Science and Information Systems (FedCSIS)*. Sept. 2017, pp. 733–742. DOI: 10.15439/2017F111.
- Mallozzi, P. "Combining machine-learning with invariants assurance techniques for autonomous systems". In: *Proceedings of the 39th International Conference on Software Engineering Companion*. IEEE Press. 2017, pp. 485–486.
- Mallozzi, P., E. Castellano, P. Pelliccione, G. Schneider, and K. Tei. "A runtime monitoring framework to enforce invariants on reinforcement learning agents exploring complex environments". In: *2019 IEEE/ACM 2nd International Workshop on Robotics Software Engineering (RoSE)*. IEEE. 2019, pp. 5–12.
- Mallozzi, P., R. Pardo, V. Duplessis, P. Pelliccione, and G. Schneider. "MOVEMO: a structured approach for engineering reward functions". In: *2018 Second IEEE International Conference on Robotic Computing (IRC)*. IEEE. 2018, pp. 250–257.
- Mallozzi, P., P. Pelliccione, A. Knauss, C. Berger, and N. Mohammadiha. "Autonomous Vehicles: State of the Art, Future Trends, and Challenges". In: *Automotive Systems and Software Engineering*. Springer, Cham, 2019, pp. 347–367.
- Mallozzi, P., P. Pelliccione, and C. Menghi. "Keeping intelligence under control". In: *2018 IEEE/ACM 1st International Workshop on Software Engineering for Cognitive Services (SE4COG)*. IEEE. 2018, pp. 37–40.



- Mallozzi, P., I. I. Romeo, P. Nuzzo, A. Sangiovanni-Vincentelli, and P. Pelliccione. “CoGoMo: Incremental Refinement of Goal Models with Contracts”. In: *submitted to 2020 Conference on Formal Methods in Software Engineering (FORMALISE)*. 2020.
- Mallozzi, P., M. Sciancalepore, and P. Pelliccione. “Formal verification of the on-the-fly vehicle platooning protocol”. In: *International Workshop on Software Engineering for Resilient Systems*. Springer, Cham. 2016, pp. 62–75.
- Mandrioli, C., A. Leva, B. Berhardsson, and M. Maggio. “Cyber-Physical Modeling of GPS Receivers for Power Efficient Localization Systems”. In: *2019 IEEE International Conference on Cyber-Physical Systems (ICCPS)*. 2019.
- Mandrioli, C., A. Leva, and M. Maggio. “Dynamic Models for the Formal Verification of Big Data Applications Via Stochastic Model Checking”. In: *2018 IEEE Conference on Control Technology and Applications (CCTA)*. 2018. doi: 10.1109/CCTA.2018.8511410.
- Mandrioli, C. and M. Maggio. “Towards testing self-adaptive software for cyber-physical systems”. English. In: Apr. 2019.
- Maro, S., A. Anjorin, R. Wohlrab, and J.-P. Steghöfer. “Traceability Maintenance: Factors and Guidelines”. In: *31st IEEE/ACM International Conference on Automated Software Engineering (ASE 2016)*. 2016, pp. 414–425.
- Martins, A., M. Lindberg, M. Maggio, and K.-E. Årzén. “Control-Based Resource Management for Storage of Video Streams”. In: *IFAC2020*. Aug. 2020.
- Mascardi, V., D. Weyns, A. Ricci, C. B. Earle, A. Casals, M. Challenger, A. Chopra, A. Ciortea, L. A. Dennis, Á. F. Díaz, A. E. Fallah-Seghrouchni, A. Ferrando, L.-Å. Fredlund, E. Giunchiglia, Z. Guessoum, A. Günay, K. Hindriks, C. A. Iglesias, B. Logan, T. Kampik, G. Kardas, V. J. Koeman, J. B. Larsen, S. Mayer, T. Méndez, T. Méndez, J. C. Nieves, V. Seidita, B. T. Tezel, L. Z. Varga, and M. Winikoff. “Engineering Multi-Agent Systems: State of Affairs and the Road Ahead”. In: *SIGSOFT Engineering Notes (SEN)* (Jan. 2019).
- Matej, K., J. Matas, A. Leonardis, M. Felsberg, L. Čehovin, G. Fernández, T. Vojř, G. Häger, G. Nebehay, R. Pflugfelder, et al. “The visual object tracking vot2015 challenge results”. In: *Workshop on the Visual Object Tracking Challenge (VOT, in conjunction with ICCV)*. . 2015.
- Mattila, R., I. Lourenço, V. Krishnamurthy, C. R. Rojas, and B. Wahlberg. “What Did Your Adversary Believe? Optimal Filtering and Smoothing in Counter-Adversarial Autonomous Systems”. In: *arXiv preprint arXiv:1910.07332* (2019).
- Mattila, R., I. Lourenço, C. R. Rojas, V. Krishnamurthy, and B. Wahlberg. “Estimating private beliefs of Bayesian agents based on observed decisions”. In: *IEEE Control Systems Letters* 3.3 (2019), pp. 523–528.
- Mattos, D. I. “Towards Automated Experiments in Software Intensive Systems”. In: (2018).
- Mattos, D. I., J. Bosch, and H. H. Olsson. “ACE: Easy Deployment of Field Optimization Experiments”. In: *European Conference on Software Architecture*. Springer, Cham. 2019, pp. 264–279.
- Mattos, D. I., J. Bosch, and H. H. Olsson. “Challenges and Strategies for Undertaking Continuous Experimentation to Embedded Systems: Industry and Research Perspectives”. In: *19th International Conference on Agile Software Development*. 2018.
- Mattos, D. I., J. Bosch, and H. H. Olsson. “Leveraging Business Transformation with Machine Learning Experiments”. In: *International Conference on Software Business*. Springer, Cham. 2019, pp. 183–191.
- Mattos, D. I., J. Bosch, and H. H. Olsson. “More for less: automated experimentation in software-intensive systems”. In: *International Conference on Product-Focused Software Process Improvement*. Springer, Cham. 2017, pp. 146–161.
- Mattos, D. I., J. Bosch, and H. H. Olsson. “Multi-armed bandits in the wild: Pitfalls and strategies in online experiments”. In: *Information and Software Technology* 113 (2019), pp. 68–81.
- Mattos, D. I., J. Bosch, and H. H. Olsson. “Your system gets better every day you use it: towards automated continuous experimentation”. In: *Software Engineering and Advanced Applications (SEAA), 2017 43rd Euromicro Conference on*. IEEE. 2017, pp. 256–265.
- Mattos, D. I., J. Bosch, H. H. Olsson, A. Dakkak, and K. Bergh. “Automated Optimization of Software Parameters in a Long Term Evolution Radio Base Station”. In: *2019 Annual IEEE Systems Conference (SysCon)*. 2019.
- Mattos, D. I., P. Dmitriev, A. Fabijan, J. Bosch, and H. H. Olsson. “An Activity and Metric Model for Online Controlled Experiments”. In: *International Conference on Product-Focused Software Process Improvement*. Springer, Cham. 2018, pp. 182–198.

- Mattos, D. I., E. Mårtensson, J. Bosch, and H. H. Olsson. “Optimization Experiments in the Continuous Space”. In: *International Symposium on Search Based Software Engineering*. Springer, Cham. 2018, pp. 293–308.
- Mayr, M. and V. Krueger. “Parametrization of Behavior Trees for Industrial Assembly Skills through Reinforcement Learning”. In: *SAIS 2019, 31st Workshop of the Swedish AI Society*. 2019.
- Millnert, V., E. Bini, and J. Eker. “AutoSAC: automatic scaling and admission control of forwarding graphs”. In: *Annals of Telecommunications* 73.3-4 (2018), pp. 193–204.
- Millnert, V., E. Bini, and J. Eker. “Cost minimization of network services with buffer and end-to-end deadline constraints”. In: *ACM SIGBED Review* 14.4 (2018), pp. 39–45.
- Millnert, V., J. Eker, and E. Bini. “Achieving predictable and low end-to-end latency for a network of smart services”. In: *IEEE GLOBECOM 2018*. 2018.
- Millnert, V., J. Eker, and E. Bini. “Dynamic control of NFV forwarding graphs with end-to-end deadline constraints”. In: *Communications (ICC), 2017 IEEE International Conference on*. IEEE. 2017, pp. 1–7.
- Millnert, V., J. Eker, and E. Bini. “End-to-end deadlines over dynamic topologies”. English. In: *31st Euromicro Conference on Real-Time Systems (ECRTS 2019)*. Ed. by S. Quinton. Vol. 133. Leibniz International Proceedings in Informatics (LIPIcs). Schloss Dagstuhl - Leibniz-Zentrum für Informatik, July 2019, 10:1–10:22.
- Millnert, V., J. Eker, and E. Bini. “Feedback for increased robustness of forwarding graphs in the cloud”. In: *Journal of Systems Architecture* 80 (2017), pp. 68–76.
- Mishchenko, K., M. Åstrand, M. Molander, R. Lindkvist, and T. Viklund. “Developing a Tool for Automatic Mine Scheduling”. In: *International Symposium on Mine Planning & Equipment Selection*. Springer. 2019, pp. 146–153.
- Mohan, N. “Architecting Safe Automated Driving with Legacy Platforms”. Licentiate Thesis. KTH Royal Institute of Technology, 2018.
- Mohan, N., P. Roos, and J. Svahn. *System and Method for Controlling a Motor Vehicle to Drive Autonomously*. 2017.
- Mohan, N., P. Roos, J. Svahn, M. Törngren, and S. Behere. “ATRIUM—Architecting under uncertainty: For ISO 26262 compliance”. In: *Systems Conference (SysCon), 2017 Annual IEEE International*. IEEE. 2017, pp. 1–8.
- Mohan, N. and M. Törngren. *AD-EYE: A Co-Simulation Platform for Early Verification of Functional Safety Concepts*. Tech. rep. SAE Technical Paper, 2019.
- Mohan, N., M. Törngren, and S. Behere. *A Method towards the Systematic Architecting of Functionally Safe Automated Driving-Leveraging Diagnostic Specifications for FSC design*. Tech. rep. SAE Technical Paper, 2017.
- Mohan, N., M. Törngren, V. Izosimov, V. Kaznov, P. Roos, J. Svahn, J. Gustavsson, and D. Nestic. “Challenges in architecting fully automated driving; with an emphasis on heavy commercial vehicles”. In: *Automotive Systems/Software Architectures (WASA), 2016 Workshop on*. IEEE. 2016, pp. 2–9.
- Morin, B., J. Høgenes, H. Song, N. Harrand, and B. Baudry. “Engineering Software Diversity: a Model-Based Approach to Systematically Diversify Communications”. In: *Proceedings of the 21th ACM/IEEE International Conference on Model Driven Engineering Languages and Systems, MODELS 2018, Copenhagen, Denmark, October 14-19, 2018*. 2018, pp. 155–165. doi: 10.1145/3239372.3239393. URL: <https://doi.org/10.1145/3239372.3239393>.
- Muskardin, T., G. Balmer, L. Persson, S. Wlach, M. Laiacker, A. Ollero, and K. Kondak. “A novel landing system to increase payload capacity and operational availability of high altitude long endurance UAVs”. In: *Journal of Intelligent & Robotic Systems* 88.2-4 (2017), pp. 597–618.
- Nazari, M. A., T. Charalambous, J. Sjöberg, and H. Wymeersch. “Remote control of automated vehicles over unreliable channels”. In: *2018 IEEE Wireless Communications and Networking Conference (WCNC)*. Apr. 2018, pp. 1–6. doi: 10.1109/WCNC.2018.8377202.
- Nazari, M. A., A. Ozcelikkale, M. Zanon, T. Charalambous, J. Sjöberg, and H. Wymeersch. “Cost Efficient Communication Resource Allocation for Remote Control of Heterogeneous Automated Vehicles”. In: *to be submitted to T-ITS*.
- Nazari, M. A., A. Ozcelikkale, M. Zanon, T. Charalambous, J. Sjöberg, and H. Wymeersch. “Impact of communication frequency on remote control of automated vehicles”. In: *2018 IEEE Personal, Indoor, and Mobile radio Communications (PIMRC)*. Sept. 2018, pp. 1–5.

- Nelson, C., N. Lyamin, A. Vinel, C. Gustafson, and F. Tufvesson. “Geometry based channel models with cross-and autocorrelation for vehicular network simulations”. In: *2018 IEEE 87th Vehicular Technology Conference (VTC Spring)*. IEEE. 2018, pp. 1–5.
- Nguyen, C., C. Klein, and E. Elmroth. “Multivariate LSTM-based Location-aware Workload Prediction for Edge Data Centers”. In: *2019 19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing*. 2019, pp. 341–350.
- Nguyen, C., A. Mehta, C. Klein, and E. Elmroth. “Why cloud applications are not ready for the edge (yet)”. In: *Proceedings of the 4th ACM/IEEE Symposium on Edge Computing*. ACM. 2019, pp. 250–263.
- Nikbakht Bideh, P., M. Höst, and M. Hell. “HAVOSS: A Maturity Model for Handling Vulnerabilities in Third Party OSS Components”. In: *International Conference on on Product-Focused Software Process Improvement (PROFES 2018)*. 2018.
- Nikbakht Bideh, P., N. Paladi, and M. Hell. “Software Defined Networking for Emergency Traffic Management in Smart Cities”. In: *IWVSC’2019*. Springer. 2019.
- Nilsson, A., T. Johansson, and P. Stankovski Wagner. “Error Amplification in Code-based Cryptography”. In: *IACR Transactions on Cryptographic Hardware and Embedded Systems 2019.1* (Nov. 2018), pp. 238–258. DOI: 10.13154/tches.v2019.i1.238-258. URL: <https://tches.iacr.org/index.php/TCHES/article/view/7340>.
- Nyberg, A., A. Eldesokey, D. D. Gustafsson, and D. Bergström. “Unpaired Thermal to Visible Spectrum Transfer using Adversarial Training”. In: *Multimodal Learning and Applications Workshop (MULA) - ECCV 2018 workshop at Munich, Germany*. Computer Vision – ECCV 2018 Workshops. 2018, pp. 657–669.
- Nylander, T., M. T. Andrén, K.-E. Årzén, and M. Maggio. “Cloud Application Predictability through Integrated Load-Balancing and Service Time Control”. In: *2018 IEEE International Conference on Autonomic Computing (ICAC)*. IEEE. 2018, pp. 51–60.
- Nylander, T., C. Klein, K.-E. Årzén, and M. Maggio. “BrownoutCC: Cascaded Control for Bounding the Response Times of Cloud Applications”. In: *American Control Conference 2018*. IEEE–Institute of Electrical and Electronics Engineers Inc. 2018.
- Nylander, T., J. Ruuskanen, K.-E. Årzén, and M. Maggio. “Towards Performance Modeling of Speculative Execution for Cloud Applications”. Submitted to the 2020 Workshop on Hot Topics in Cloud Computing Performance.
- Nylander, T., J. Ruuskanen, M. Maggio, and K.-E. Årzén. “Modeling of Request Cloning in Cloud Server Systems using Processor Sharing”. In: *11th International Conference on Performance Engineering (ICPE)*. ACM. 2019, pp. 51–55.
- Ok, J., A. Proutiere, and D. Tranos. “Exploration in structured reinforcement learning”. In: *Advances in Neural Information Processing Systems*. 2018, pp. 8874–8882.
- Oliveira, R., P. F. Lima, G. Collares Pereira, J. Mårtensson, and B. Wahlberg. “Path Planning for Autonomous Bus Driving in Highly Constrained Environments”. In: *2019 IEEE Intelligent Transportation Systems Conference (ITSC)*. Oct. 2019, pp. 2743–2749. DOI: 10.1109/ITSC.2019.8916773.
- Oliveira, R., O. Ljungqvist, P. F. Lima, and B. Wahlberg. “Optimization-Based On-Road Path Planning for Articulated Vehicles”. *Submitted to Proceedings of the 21th IFAC World Congress*. 2020.
- Oliveira, R., M. Cirillo, B. Wahlberg, et al. “Combining Lattice-Based Planning and Path Optimization in Autonomous Heavy Duty Vehicle Applications”. In: *2018 IEEE Intelligent Vehicles Symposium (IV)*. IEEE. 2018, pp. 2090–2097.
- Oliveira, R., P. F. Lima, G. Collares Pereira, J. Mårtensson, and B. Wahlberg. “Path Planning for Autonomous Bus Driving in Highly Constrained Environments”. In: *2019 IEEE Intelligent Transportation Systems Conference (ITSC)*. IEEE. 2019, pp. 2743–2749.
- Oliveira, R., P. F. Lima, M. Cirillo, J. Mårtensson, and B. Wahlberg. “Trajectory Generation using Sharpness Continuous Dubins-like Paths with Applications in Control of Heavy Duty Vehicles”. In: *European Control Conference (ECC) 2018*. 2018.
- Oscarsson, J., M. Stolz-Sundnes, N. Mohan, and V. Izosimov. “Applying systems-theoretic process analysis in the context of cooperative driving”. In: *Industrial Embedded Systems (SIES), 2016 11th IEEE Symposium on*. IEEE. 2016, pp. 1–5.
- P. Mallozzi E. Castellano, P. P. and G. Schneider. “Using run-time monitoring to address safe exploration for reinforcement learning agent (in submission)”. In: ()

- Parseh, M., F. Asplund, M. Nybacka, L. Svensson, and M. Törngren. “Pre-Crash Vehicle Control and Manoeuvre Planning: A Step Towards Minimizing Collision Severity for Highly Automated Vehicles”. In: *2019 IEEE International Conference of Vehicular Electronics and Safety (ICVES)*. IEEE. 2019, pp. 1–6.
- Parthasarathy, D., K. Bäckström, J. Henriksson, and S. H. Einarsson. “Controlled time series generation for automotive software-in-the-loop testing using GANs”. In: *IEEE Second International Conference On Artificial Intelligence Testing (AITest 2020)*. 2020.
- Pazzaglia, P., C. Mandrioli, M. Maggio, and A. Cervin. “DMAC: Deadline-Miss-Aware Control”. English. In: *31st Euromicro Conference on Real-Time Systems*. Ed. by S. Quinon. Vol. 133. Leibniz International Proceedings in Informatics (LIPIcs). Schloss Dagstuhl - Leibniz-Zentrum für Informatik, July 2019, 1:1–1:24. ISBN: 978-3-95977-110-8. DOI: 10.4230/LIPIcs.ECRTS.2019.1.
- Pelliccione, P., E. Knauss, R. Heldal, M. Ågren, P. Mallozzi, A. Alming, and D. Borgentun. “A proposal for an automotive architecture framework for Volvo Cars”. In: *Automotive Systems/Software Architectures (WASA), 2016 Workshop on*. IEEE. 2016, pp. 18–21.
- Pelliccione, P., E. Knauss, R. Heldal, S. M. Ågren, P. Mallozzi, A. Alming, and D. Borgentun. “Automotive architecture framework: The experience of volvo cars”. In: *Journal of Systems Architecture* 77 (2017), pp. 83–100.
- Peng, H., E. Fitzgerald, W. Tärneberg, and M. Kihl. “5G Radio Access Network Slicing in Massive MIMO Systems for Industrial Applications”. In:
- Pereira, G. C., P. F. Lima, B. Wahlberg, H. Pettersson, and J. Mårtensson. “Linear Time-Varying Robust Model Predictive Control for Discrete-Time Nonlinear Systems”. In: *2018 57th IEEE Conference on Decision and Control*. 2018.
- Pereira, G. C., L. Svensson, P. F. Lima, and J. Mårtensson. “Lateral Model Predictive Control for Over-Actuated Autonomous Vehicle”. In: *Intelligent Vehicles Symposium (IV), 2017 IEEE*. IEEE. 2017, pp. 310–316.
- Persson, L., R. Bereza, and B. Wahlberg. “Distributed Model Predictive Control for Cooperative Landing”. In: *2020 IFAC World Congress*. Submitted. 2020.
- Persson, L., T. Muskardin, and B. Wahlberg. “Cooperative rendezvous of ground vehicle and aerial vehicle using model predictive control”. In: *2017 IEEE 56th Annual Conference on Decision and Control (CDC)*. Dec. 2017, pp. 2819–2824. DOI: 10.1109/CDC.2017.8264069.
- Persson, L. and B. Wahlberg. “Model Predictive Control for Autonomous Ship Landing in a Search and Rescue Scenario”. In: *2019 Guidance Navigation and Control Conference (GNC)*. Jan. 2019.
- Persson, L. and B. Wahlberg. “Verification of Cooperative Maneuvers in FlightGear using MPC and Backwards Reachable Sets”. In: *2018 European Control Conference (ECC)*. June 2018, pp. 1411–1416. DOI: 10.23919/ECC.2018.8550247.
- Persson, L. and B. Wahlberg. “Model Predictive Control for Autonomous Ship Landing in a Search and Rescue Scenario”. In: *AIAA Scitech 2019 Forum*. DOI: 10.2514/6.2019-1169. eprint: <https://arc.aiaa.org/doi/pdf/10.2514/6.2019-1169>. URL: <https://arc.aiaa.org/doi/abs/10.2514/6.2019-1169>.
- Persson, P. and K. Åström. “Global Trifocal Adjustment”. eng. In: *Image Analysis - 21st Scandinavian Conference, SCIA 2019, Proceedings*. Ed. by M. Felsberg, P.-E. Forssén, J. Unger, and I.-M. Sintorn. Vol. 11482 LNCS. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics). Springer, 2019, pp. 287–298. ISBN: 9783030202040. DOI: 10.1007/978-3-030-20205-7\_24. URL: [http://dx.doi.org/10.1007/978-3-030-20205-7\\_24](http://dx.doi.org/10.1007/978-3-030-20205-7_24).
- Pham, T. T., H. R. Déniz, and T. D. Pham. “Tensor Decomposition of Non-EEG Physiological Signals for Visualization and Recognition of Human Stress”. In: *Proceedings of the 2019 11th International Conference on Bioinformatics and Biomedical Technology*. 2019, pp. 132–136.
- Piacentini, G., M. Čičić, A. Ferrara, and K. H. Johansson. “VACS equipped vehicles for congestion dissipation in multi-class CTM framework”. In: *European Control Conference*. 2019.
- Pla, P., L. Pellaco, S. Dwivedi, P. Händel, and J. Jaldén. “Clock synchronization over networks using sawtooth models”. In: *ICASSP*. 2020.
- Pla, P. d. A., V. Saxena, and J. Jaldén. “SpotNet-Learned iterations for cell detection in image-based immunoassays”. In: *Biomedical Imaging (ISBI 2019), 2019 IEEE 16th International Symposium on*. 2019.

- Polianskii, V. and F. T. Pokorný. “Voronoi Boundary Classification: A High-Dimensional Geometric Approach via Weighted Monte Carlo Integration”. In: *International Conference on Machine Learning*. 2019, pp. 5162–5170.
- Präntare, F. and F. Heintz. “An Anytime Algorithm for Simultaneous Coalition Structure Generation and Assignment”. In: *International Conference on Principles and Practice of Multi-Agent Systems*. Springer. 2018, pp. 158–174.
- Präntare, F. and F. Heintz. “Dynamic programming for optimal simultaneous coalition structure generation and assignment”. In: *International Conference on Autonomous Systems and Multi-agent Systems*. 2020.
- Präntare, F., I. Ragnemalm, and F. Heintz. “An algorithm for simultaneous coalition structure generation and task assignment”. In: *International Conference on Principles and Practice of Multi-Agent Systems*. Springer. 2017, pp. 514–522.
- Rahbar, A., E. Jorge, D. Dubhashi, and M. H. Chehreghani. *Spectral Analysis of Kernel and Neural Embeddings: Optimization and Generalization*. 2019. arXiv: 1905.05095 [cs.LG].
- Ramezani, Z., J. Krook, Z. Fei, M. Fabian, and K. Åkesson. “Comparative Case Studies of Reactive Synthesis and Supervisory Control”. In: *2019 18th European Control Conference (ECC)*. June 2019, pp. 1752–1759. doi: 10.23919/ECC.2019.8795696.
- “Real-Time Robotic Search using Hierarchical Spatial Point Processes”. In: *Proceedings of the Thirty-Fifth Conference on Uncertainty in Artificial Intelligence (UAI)*. Tel Aviv, Israel, July 22-25: AUAI Press, 2019.
- Rigge, P., V. N. Swamy, C. Nelson, F. Tufvesson, A. Sahai, and B. Nikolic. “Wireless Channel Dynamics for Relay Selection under Ultra-Reliable Low-Latency Communication”. In: *2020 IEEE International Conference on Communications (Submitted)*. IEEE. 2020, pp. 1–6.
- Rodriguez-Deniz, H., E. Jenelius, and M. Villani. “Urban network travel time prediction via online multi-output Gaussian process regression”. In: *Intelligent Transportation Systems (ITSC), 2017 IEEE 20th International Conference on*. IEEE. 2017, pp. 1–6.
- Rodriguez-Deniz, H., M. Villani, and A. Voltes-Dorta. “A Bayesian Dynamic Multilayered Block Network Model”. In: *arXiv preprint arXiv:1911.13136* (2019).
- Romanowski, A., S. Mayer, L. Lischke, K. Grudzien, T. Jaworski, I. Perenc, P. Kucharski, M. Obaid, T. Kosinski, and P. W. Wozniak. “Towards Supporting Remote Cheering during Running Races with Drone Technology”. In: *Proceedings of the 2017 CHI Conference on Human Factors in Computing Systems, Denver, CO, USA, May 06-11, 2017, Extended Abstracts*. 2017, pp. 2867–2874. doi: 10.1145/3027063.3053218. url: <https://doi.org/10.1145/3027063.3053218>.
- Romanowski, A., S. Mayer, L. Lischke, K. Grudzien, T. Jaworski, I. Perenc, P. Kucharski, M. Obaid, T. Kosizski, and P. W. Wozniak. “Towards Supporting Remote Cheering during Running Races with Drone Technology”. In: *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems*. CHI EA ’17. Denver, Colorado, USA: Association for Computing Machinery, 2017, pp. 2867–2874. isbn: 9781450346566. doi: 10.1145/3027063.3053218. url: <https://doi.org/10.1145/3027063.3053218>.
- Rooij, J. van, V. Gulisano, and M. Papatriantafidou. “LoCoVolt: Distributed Detection of Broken Meters in Smart Grids through Stream Processing”. In: *Proceedings of the 12th ACM International Conference on Distributed and Event-based Systems*. ACM. 2018, pp. 171–182.
- Rooij, J. van, J. Swetén, V. Gulisano, M. Almgren, and M. Papatriantafidou. “eChIDNA: Continuous data validation in advanced metering infrastructures”. In: *2018 IEEE International Energy Conference (ENERGYCON)*. IEEE. 2018, pp. 1–6.
- Roosbeh, A., J. Soares, G. Q. Maguire, F. Wuhib, C. Padala, M. Mahloo, D. Turull, V. Yadhav, and D. Kostić. “Software-Defined “Hardware” Infrastructures: A Survey on Enabling Technologies and Open Research Directions”. In: *IEEE Communications Surveys Tutorials* 20.3 (thirdquarter 2018), pp. 2454–2485. issn: 1553-877X. doi: 10.1109/COMST.2018.2834731.
- Roosbeh, A. *Toward Next-generation Data Centers : Principles of Software-Defined “Hardware” Infrastructures and Resource Disaggregation*. QC 20190415. 2019.
- Ros, R., E. Bjarnason, and P. Runeson. “A machine learning approach for semi-automated search and selection in literature studies”. In: *Proceedings of the 21st International Conference on Evaluation and Assessment in Software Engineering*. ACM. 2017, pp. 118–127.
- Ros, R., E. Bjarnason, and P. Runeson. “Automated controlled experimentation on software by evolutionary bandit optimization”. In: *International Symposium on Search Based Software Engineering*. Springer. 2017, pp. 190–196.

- Ros, R. and M. Hammar. “Combo: A toolkit for Continuous Optimization of Software”. In: *Empirical Software Engineering: Software Engineering in the Age of AI* (2020). in submission.
- Ros, R. and P. Runeson. “Continuous experimentation and A/B testing: a mapping study”. In: *Proceedings of the 4th International Workshop on Rapid Continuous Software Engineering*. ACM. 2018, pp. 35–41.
- Rosdahl, C., G. Nilsson, and G. Como. “On Distributed Optimal Control of Traffic Flows in Transportation Networks”. English. In: *2018 IEEE Conference on Control Technology and Applications (CCTA)*. Aug. 2018, pp. 903–908. doi: 10.1109/CCTA.2018.8511601.
- Roselli, S., F. Hagebring, S. Riazi, M. Fabian, and K. Åkesson. “On the Use of Equivalence Classes for Optimal and Sub-Optimal Bin Covering”. In: *2019 IEEE 15th International Conference on Automation Science and Engineering (CASE)*. IEEE. 2019, pp. 1004–1009.
- Ruuskanen, J. and A. Cervin. “Event-Based State Estimation Using the Auxiliary Particle Filter”. In: *2019 18th European Control Conference (ECC)*. IEEE. 2019, pp. 1854–1860.
- Ruuskanen, J. and A. Cervin. “Innovation-based triggering for event-based nonlinear state estimation using the particle filter”. In: *2020 19th European Control Conference (ECC)*. IEEE. 2020.
- Ruuskanen, J. and A. Cervin. “Internal Server State Estimation Using Event-based Particle Filtering”. In: *Proceedings of the 4th International Conference on Event-Based Control, Communication, and Signal Processing*. 2018.
- Ruuskanen, J., H. Peng, and A. Martins. “Latency prediction in 5G for control with deadtime compensation”. English. In: *IoT-Fog ’19 Proceedings of the Workshop on Fog Computing and the IoT*. ACM, NY, USA, Apr. 2019, pp. 51–55. ISBN: 978-1-4503-6698-4.
- Ruuskanen, J., H. Peng, and A. Martins. “Latency prediction in 5G for control with deadtime compensation”. In: *Proceedings of the Workshop on Fog Computing and the IoT*. ACM. 2019, pp. 51–55.
- Sadeghi, H., R. Pates, and A. Rantzer. “Anti-Windup Scheme for Networked Proportional-Integral Control”. In: 2018.
- Saxena, V., B. Cavarec, J. Jaldén, M. Bengtsson, and H. Tullberg. “A Learning Approach for Optimal Codebook Selection in Spatial Modulation Systems”. In: *52nd Asilomar Conference on Signals, Systems and Computers, ACSSC 2018, Pacific Grove, CA, USA, October 28-31, 2018*. IEEE. 2018.
- Saxena, V., J. E. Gonzalez, and J. Jaldén. “Thompson Sampling for Linearly Constrained Bandits”. In: *23rd International Conference on Artificial Intelligence and Statistics*. 2020.
- Saxena, V., J. Jaldén, M. Bengtsson, and H. Tullberg. “Deep Learning for Frame Error Probability Prediction in BICM-OFDM Systems”. In: *2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*. IEEE. 2018, pp. 6658–6662.
- Saxena, V., J. Jaldén, J. E. Gonzalez, M. Bengtsson, H. Tullberg, and I. Stoica. “Contextual Multi-Armed Bandits for Link Adaptation in Cellular Networks”. In: *Proceedings of the 2019 Workshop on Network Meets AI & ML*. 2019, pp. 44–49.
- Saxena, V., J. Jaldén, J. E. Gonzalez, I. Stoica, and H. Tullberg. “Constrained Thompson Sampling for Wireless Link Optimization”. In: *arXiv preprint arXiv:1902.11102* (2019).
- Saxena, V., J. Jaldén, and H. Klessig. “Optimal UAV Base Station Trajectories Using Flow-Level Models for Reinforcement Learning”. In: *IEEE Transactions on Cognitive Communications and Networking* 5.4 (2019), pp. 1101–1112.
- Scheidegger, S., J. Benjaminsson, E. Rosenberg, A. Krishnan, and K. Granström. “Mono-Camera 3D Multi-Object Tracking Using Deep Learning Detections and PMBM Filtering”. In: *2018 IEEE Intelligent Vehicles Symposium, IV 2018, Changshu, Suzhou, China, June 26-30, 2018*. 2018, pp. 433–440. doi: 10.1109/IVS.2018.8500454. URL: <https://doi.org/10.1109/IVS.2018.8500454>.
- Scheuner, J. and P. Leitner. “A Cloud Benchmark Suite Combining Micro and Applications Benchmarks”. In: *Companion of the 2018 ACM/SPEC International Conference on Performance Engineering*. ICPE ’18. ACM, Apr. 2018, pp. 161–166.
- Scheuner, J. and P. Leitner. “Estimating Cloud Application Performance Based on Micro-Benchmark Profiling”. In: *2018 IEEE 11th International Conference on Cloud Computing (CLOUD)*. IEEE, July 2018, pp. 90–97.
- Scheuner, J. and P. Leitner. “Performance Benchmarking of Infrastructure-as-a-Service (IaaS) Clouds with Cloud WorkBench”. In: *Companion of the 2019 ACM/SPEC International Conference on Performance Engineering*. ICPE ’19. ACM, Apr. 2019, pp. 53–56.

- Scheuner, J. and P. Leitner. “Transpiling Applications into Optimized Serverless Orchestrations”. In: *2019 IEEE 4th International Workshops on Foundations and Applications of Self\* Systems (FAS\*W)*. IEEE, June 2019, pp. 72–73.
- Scheuner, J. and P. Leitner. “Tutorial – Performance Benchmarking of Infrastructure-as-a-Service (IaaS) Clouds with Cloud WorkBench”. In: *2019 IEEE 4th International Workshops on Foundations and Applications of Self\* Systems (FAS\*W)*. IEEE, June 2019, pp. 257–258.
- Schmitz, T., M. Algehed, C. Flanagan, and A. Russo. “Faceted Secure Multi Execution”. In: *Proceedings of the 2018 ACM SIGSAC Conference on Computer and Communications Security*. ACM, 2018, pp. 1617–1634.
- Selin, M., M. Tiger, D. Duberg, F. Heintz, and P. Jensfelt. “Efficient Autonomous Exploration Planning of Large-Scale 3-D Environments”. In: *IEEE Robotics and Automation Letters* 4.2 (2019), pp. 1699–1706.
- Skarin, P., W. Tärneberg, K. Årzen, and M. Kihl. “Towards Mission-Critical Control at the Edge and Over 5G”. In: *2018 IEEE International Conference on Edge Computing (EDGE)*. July 2018, pp. 50–57. doi: 10.1109/EDGE.2018.00014.
- Skarin, P., J. Eker, and K.-E. Årzén. “Cloud-based model predictive control with variable horizon”. In: *IFAC World Congress 2020*. 2020.
- Skarin, P., J. Eker, M. Kihl, and K.-E. Årzén. “Cloud-Assisted Model Predictive Control”. In: *2019 IEEE International Conference on Edge Computing (EDGE)*. IEEE, 2019, pp. 110–112.
- Skawina, B., J. Greberg, M. Astrand, F. Sundqvist, and A. Salama. “Automatic closed-loop scheduling in underground mining using DES”. In: (2019).
- Smallbone, N., M. Johansson, K. Claessen, and M. Algehed. “Quick specifications for the busy programmer.” In: *J. Funct. Program.* 27 (2017), e18.
- Sminchisescu, C. “Domes to Drones: Self-Supervised Active Triangulation for 3D Human Pose Reconstruction”. In: *Advances in Neural Information Processing Systems 32*. Curran Associates, Inc., 2019, pp. 3907–3917.
- Soto-Valero, C., A. Benelallam, N. Harrand, O. Barais, and B. Baudry. “The emergence of software diversity in maven central”. In: *Proceedings of the 16th International Conference on Mining Software Repositories, MSR 2019, 26-27 May 2019, Montreal, Canada*. 2019, pp. 333–343. doi: 10.1109/MSR.2019.00059. url: <https://doi.org/10.1109/MSR.2019.00059>.
- Stacke, K., G. Eilertsen, J. Unger, and C. Lundström. “A Closer Look at Domain Shift for Deep Learning in Histopathology”. In: *arXiv:1909.11575 [cs]* (Sept. 2019). arXiv: 1909.11575. url: <http://arxiv.org/abs/1909.11575> (visited on 11/27/2019).
- Stefanie, F., M. Ferizbegovic, and H. Hjalmarsson. “Consistent identification of dynamic networks subjected to white noise using Weighted Null-Space Fitting”. submitted. 2019.
- Steghöfer, J.-P., E. Knauss, J. Horkoff, and R. Wohlrab. “Challenges of Scaled Agile for Safety-Critical Systems”. In: *20th Int. Conf. on Product-Focused Software Process Improvement (PROFES)*. Best Paper Award. 2019.
- Stich, S. U., J.-B. Cordonnier, and M. Jaggi. “Sparsified sgd with memory”. In: *Advances in Neural Information Processing Systems*. 2018, pp. 4452–4463.
- Sun, Z., M. Greiff, A. Robertsson, and R. Johansson. “Feasibility and coordination of multiple mobile vehicles with mixed equality and inequality constraints”. In: *arXiv preprint arXiv:1809.05509* (2018).
- Sun, Z., M. Greiff, A. Robertsson, and R. Johansson. “Feasible coordination of multiple homogeneous or heterogeneous mobile vehicles with various constraints”. In: *2019 International Conference on Robotics and Automation (ICRA)*. IEEE, 2019, pp. 1008–1013.
- Svahn, C., O. Sysoev, M. Cirkic, F. Gunnarsson, and J. Berglund. “Inter-Frequency Radio Signal Quality Prediction for Handover, Evaluated in 3GPP LTE”. In: Apr. 2019, pp. 1–5. doi: 10.1109/VTCSpring.2019.8746369.
- Sveningsson, R., D. I. Mattos, and J. Bosch. “Continuous Experimentation for Software Organizations with Low Control of Roadmap and a Large Distance to Users: An Exploratory Case Study”. In: *International Conference on Product-Focused Software Process Improvement*. Springer, Cham, 2019, pp. 528–544.
- Svensson, L., M. Bujarbaruah, N. Kapania, and M. Törngren. “Adaptive trajectory planning and optimization at limits of handling”. In: *arXiv preprint arXiv:1903.04240* (2019).
- Svensson, L., L. Masson, N. Mohan, E. Ward, A. P. Brenden, L. Feng, and M. Törngren. “Safe Stop Trajectory Planning for Highly Automated Vehicles: An Optimal Control Problem Formulation”. In: *2018 IEEE Intelligent Vehicles Symposium (IV)*. IEEE, 2018, pp. 517–522.

- Tabassum, M., T. Kosinski, A. Frik, N. Malkin, P. Wijesekera, S. Egelman, and H. R. Lipford. “Investigating Users’ Preferences and Expectations for Always-Listening Voice Assistants”. In: *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol.* 3.4 (Dec. 2019). doi: 10.1145/3369807. URL: <https://doi.org/10.1145/3369807>.
- Tabassum, M., T. Kosinski, and H. R. Lipford. ““I don’t own the data”: End User Perceptions of Smart Home Device Data Practices and Risks”. In: *Fifteenth Symposium on Usable Privacy and Security (SOUPS 2019)*. Santa Clara, CA: USENIX Association, Aug. 2019. URL: <https://www.usenix.org/conference/soups2019/presentation/tabassum>.
- Tan, C. N. L., C. Klein, and E. Elmroth. “Location-aware load prediction in Edge Data Centers”. In: *2017 Second International Conference on Fog and Mobile Edge Computing (FMEC)*. May 2017, pp. 25–31. doi: 10.1109/FMEC.2017.7946403.
- Tan, C. N. L., C. Klein, and E. Elmroth. “Multivariate LSTM-based Location-aware Workload Prediction for Edge Data Centers”. In Submission to CCGRID’19. 2018.
- Tan, C. N. L., A. Mehta, C. Klein, and E. Elmroth. “Why Cloud Applications Are not Ready for the Edge (yet)”. In Submission to FGCS journal. 2018.
- Tang, J., R. Ambrus, V. Guizilini, S. Pillai, H. Kim, and A. Gaidon. “Self-Supervised 3D Keypoint Learning for Ego-motion Estimation”. In: *arXiv preprint arXiv:1912.03426* (2019).
- Tang, J., L. Ericson, J. Folkesson, and P. Jensfelt. *GCNv2: Efficient Correspondence Prediction for Real-Time SLAM*. 2019.
- Tang, J., J. Folkesson, and P. Jensfelt. “Geometric Correspondence Network for Camera Motion Estimation”. In: *IEEE Robotics and Automation Letters* 3.2 (2018), pp. 1010–1017.
- Tang, J., J. Folkesson, and P. Jensfelt. “Geometric correspondence network for camera motion estimation”. In: *ICRA(RA-L option)* 3.2 (2018), pp. 1010–1017.
- Tang, J., J. Folkesson, and P. Jensfelt. “Sparse2Dense: From Direct Sparse Odometry to Dense 3-D Reconstruction”. In: *ICRA(RA-L option)* 4.2 (2019), pp. 530–537.
- Tang, J., J. Folkesson, and P. Jensfelt. “Sparse2Dense: From direct sparse odometry to dense 3D reconstruction (In press)”. In: *IEEE Robotics and Automation Letters* x.x (2019), pp. x–x.
- Tang, J., H. Kim, V. Guizilini, S. Pillai, and R. Ambrus. “Neural Outlier Rejection for Self-Supervised Keypoint Learning”. In: *ICLR(accepted)* (2020).
- Teo Asplund Karl Bengtsson Bernander, E. B. “CNNs on Graphs: A New Pooling Approach and Similarities to Mathematical Morphology”. In: *Swedish Symposium on Deep Learning*. 2019. URL: [http://ssba.org.se/ssdl2019/abstracts/Asplund\\_etal.pdf](http://ssba.org.se/ssdl2019/abstracts/Asplund_etal.pdf).
- Thomas, D., N. Harrand, B. Baudry, and B. Bossis. “CodeStrata Sonifying Software Complexity”. In: *Proceedings of the Twelfth International Conference on Tangible, Embedded, and Embodied Interaction*. TEI ’18. Stockholm, Sweden: ACM, 2018, pp. 617–621. ISBN: 978-1-4503-5568-1. doi: 10.1145/3173225.3173317. URL: <http://doi.acm.org/10.1145/3173225.3173317>.
- Tiger, M. and F. Heintz. “Gaussian Process Based Motion Pattern Recognition with Sequential Local Models”. In: *2018 IEEE Intelligent Vehicles Symposium (IV)*. IEEE. 2018, pp. 1143–1149.
- Tiger, M. and F. Heintz. “Incremental Reasoning in probabilistic Signal Temporal Logic”. 2020.
- Tiger, M. and F. Heintz. “Online sparse Gaussian process regression for trajectory modeling”. In: *Information Fusion (Fusion), 2015 18th International Conference on*. IEEE. 2015, pp. 782–791.
- Tiger, M. and F. Heintz. “Stream reasoning using temporal logic and predictive probabilistic state models”. In: *Temporal Representation and Reasoning (TIME), 2016 23rd International Symposium on*. IEEE. 2016, pp. 196–205.
- Tiger, M. and F. Heintz. “Towards Unsupervised Learning, Classification and Prediction of Activities in a Stream-Based Framework.” In: *SCAI*. 2015, pp. 147–156.
- Toft, C., E. Stenborg, L. Hammarstrand, L. Brynte, M. Pollefeys, T. Sattler, and F. Kahl. “Semantic Match Consistency for Long-Term Visual Localization”. In: *The European Conference on Computer Vision (ECCV)*. Sept. 2018.
- Törnblom, J. and S. Nadjm-Tehrani. “An Abstraction-Refinement Approach to Formal Verification of Tree Ensembles”. In: *Computer Safety, Reliability, and Security*. Ed. by A. Romanovsky, E. Troubitsyna, I. Gashi, E. Schoitsch, and F. Bitsch. Cham: Springer International Publishing, 2019, pp. 301–313. ISBN: 978-3-030-26250-1.
- Törnblom, J. and S. Nadjm-Tehrani. “Formal Verification of Random Forests in Safety-Critical Applications”. In: *Formal Techniques for Safety-Critical Systems*. Ed. by C. Artho and P. C. Ölveczky. Cham: Springer International Publishing, 2019, pp. 55–71. ISBN: 978-3-030-12988-0.



- Törngren, M. “A Data-Driven Method Towards Minimizing Collision Severity for Highly Automated Vehicles”. In: *IEEE Transactions on Intelligent Transportation Systems (in submission)* (2020).
- Törngren, M., X. Zhang, N. Mohan, M. Becker, L. Svensson, X. Tao, D.-J. Chen, and J. Westman. “Architecting Safety Supervisors for High Levels of Automated Driving”. In: *2018 21st International Conference on Intelligent Transportation Systems (ITSC)*. IEEE. 2018, pp. 1721–1728.
- Tram, T., I. Batkovic, M. Ali, and J. Sjöberg. “Learning When to Drive in Intersections by Combining Reinforcement Learning and Model Predictive Control”. In: *2019 IEEE Intelligent Transportation Systems Conference (ITSC)*. IEEE. 2019, pp. 3263–3268.
- Tram, T., A. Jansson, R. Grönberg, M. Ali, and J. Sjöberg. “Learning Negotiating Behavior Between Cars in Intersections using Deep Q-Learning”. In: *2018 21st International Conference on Intelligent Transportation Systems (ITSC)*. IEEE. 2018, pp. 3169–3174.
- Tsaloli, G. and A. Mitrokotsa. “Differential Privacy meets Verifiable Computation: achieving strong privacy and integrity guarantees”. In: *SECRYPT 2019*. 2019.
- Tsaloli, G. and A. Mitrokotsa. “Sum it Up: Verifiable Additive Homomorphic Secret Sharing”. In: *ICISC 2019*. 2019.
- Tsirikoglou, A., J. Kronander, P. Larsson, T. Tongbuasirilai, A. Gardner, and J. Unger. “Differential appearance editing for measured BRDFs”. In: *ACM SIGGRAPH 2016 Talks*. ACM. 2016, p. 51.
- Tsirikoglou, A., J. Kronander, M. Wrenninge, and J. Unger. “Procedural modeling and physically based rendering for synthetic data generation in automotive applications”. In: *arXiv preprint arXiv:1710.06270* (2017).
- Umenberger, J., M. Ferizbegovic, T. B. Schön, and H. Hjalmarsson. “Robust exploration in linear quadratic reinforcement learning”. In: *Advances in Neural Information Processing Systems*. 2019.
- Varnai, P. and D. V. Dimarogonas. “A Gradient-Based Signal Temporal Logic Control Framework with Application to Nonholonomic Systems”. submitted. 2018.
- Varnai, P. and D. V. Dimarogonas. “A Learning Framework for Versatile STL Controller Synthesis”. In: *Proceedings of the 58th IEEE Conference on Decision and Control (CDC)* (2019).
- Varnai, P. and D. V. Dimarogonas. “Gradient-Based STL Control with Application to Nonholonomic Systems”. In: *arXiv preprint arXiv:1909.02483* (2019).
- Varnai, P. and D. V. Dimarogonas. “Guided policy improvement for satisfying STL tasks using funnel adaptation”. In: *Submitted to The International Journal of Robotics Research* (2019).
- Varnai, P. and D. V. Dimarogonas. “On robustness metrics for learning STL tasks”. In: *Submitted to the 2020 American Control Conference (ACC)* (2019).
- Varnai, P. and D. V. Dimarogonas. “Prescribed Performance Control Guided Policy Improvement for Satisfying Signal Temporal Logic Tasks”. In: *Proceedings of the 2019 American Control Conference (ACC)*. Philadelphia, PA, July 2019, pp. 286–291.
- Wessen, J., M. Carlsson, and C. Schulte. “Scheduling of Dual-Arm Multi-Tool Assembly Robots and Workspace Layout Optimization”. In: 2020.
- Westberg, M., A. Zelveler, and A. Najjar. “A Historical Perspective on Cognitive Science and Its Influence on XAI Research”. In: *International Workshop on Explainable, Transparent Autonomous Agents and Multi-Agent Systems*. Springer, Cham. 2019, pp. 205–219.
- Westman, J., M. Nyberg, J. Gustavsson, and D. Gurov. “Formal architecture modeling of sequential non-recursive C programs”. In: *Sci. Comput. Program.* 146 (2017), pp. 2–27. doi: 10.1016/j.scico.2017.03.007. URL: <https://doi.org/10.1016/j.scico.2017.03.007>.
- Wohlrab, R., P. Pelliccione, E. Knauss, and R. Heldal. “On Interfaces to Support Agile Architecting in Automotive: An Exploratory Case Study”. In: *2019 IEEE International Conference on Software Architecture (ICSA)*. Mar. 2019, pp. 161–170. doi: 10.1109/ICSA.2019.00025.
- Wohlrab, R. “Continuous Management of Design- and Run-Time Artifacts for Self-Adaptive Systems”. In: *39th International Conference on Software Engineering Companion (ICSE Doctoral Symposium 2017)*. May 2017, pp. 473–474. doi: 10.1109/ICSE-C.2017.31.
- Wohlrab, R., U. Eliasson, P. Pelliccione, and R. Heldal. “Improving the Consistency and Usefulness of Architecture Descriptions: Guidelines for Architects”. In: *2019 IEEE International Conference on Software Architecture (ICSA)*. Best Paper Award. Mar. 2019, pp. 151–160. doi: 10.1109/ICSA.2019.00024.
- Wohlrab, R., P. Pelliccione, E. Knauss, and S. C. Gregory. “The Problem of Consolidating RE Practices at Scale: An Ethnographic Study”. In: *Requirements Engineering: Foundation for Software Quality (REFSQ)*. Springer International, 2018, pp. 155–170. ISBN: 978-3-319-77243-1.

- Wohlrab, R., P. Pelliccione, E. Knauss, and M. Larsson. “Boundary Objects in Agile Practices: Continuous Management of Systems Engineering Artifacts in the Automotive Domain”. In: *Proceedings of the 2018 International Conference on Software and System Process. ICSSP '18*. Best Paper Award. Gothenburg, Sweden: ACM, 2018, pp. 31–40. ISBN: 978-1-4503-6459-1. DOI: 10.1145/3202710.3203155. URL: <http://doi.acm.org/10.1145/3202710.3203155>.
- Wohlrab, R., J.-P. Steghöfer, E. Knauss, S. Maro, and A. Anjorin. “Collaborative Traceability Management: Challenges and Opportunities”. In: *24th IEEE International Requirements Engineering Conference (RE'16)*. Sept. 2016, pp. 216–225. DOI: 10.1109/RE.2016.17.
- Wu, Y., T. Iwaki, J. Wu, K. H. Johansson, and L. Shi. “Sensor selection and routing design for state estimation over wireless sensor networks”. In: *Proc. of Chinese Control Conf.* 2017, pp. 8008–8013.
- Ye, H., J. Gu, M. Martinez, T. Durieux, and M. Monperrus. *Automated Classification of Overfitting Patches with Statically Extracted Code Features*. 2019. arXiv: 1910.12057 [cs.SE].
- Ye, H., M. Martinez, T. Durieux, and M. Monperrus. “A Comprehensive Study of Automatic Program Repair on the QuixBugs Benchmark”. In: *Proceedings of SANER Workshops*. 2019. DOI: 10.1109/IBF.2019.8665475. URL: <http://arxiv.org/pdf/1805.03454>.
- Ye, H., M. Martinez, and M. Monperrus. *Automated Patch Assessment for Program Repair at Scale*. 2019. arXiv: 1909.13694 [cs.SE].
- Zhang, L., B. Morin, P. Haller, B. Baudry, and M. Monperrus. “A Chaos Engineering System for Live Analysis and Falsification of Exception-handling in the JVM”. In: *IEEE Transactions on Software Engineering* (2019), pp. 1–1. ISSN: 2326-3881. DOI: 10.1109/TSE.2019.2954871.
- Zhang, L. and M. Monperrus. “TripleAgent: Monitoring, Perturbation And Failure-obliviousness for Automated Resilience Improvement in Java Applications”. In: *CoRR abs/1812.10706* (2018). arXiv: 1812.10706. URL: <http://arxiv.org/abs/1812.10706>.
- Zhang, L. and M. Monperrus. “TripleAgent: Monitoring, Perturbation And Failure-obliviousness for Automated Resilience Improvement in Java Applications”. In: *2019 IEEE 30th International Symposium on Software Reliability Engineering (ISSRE)*. Oct. 2019.
- Zhang, L., B. Morin, P. Haller, B. Baudry, and M. Monperrus. “A Chaos Engineering System for Live Analysis and Falsification of Exception-handling in the JVM”. In: *CoRR abs/1805.05246* (2018). arXiv: 1805.05246. URL: <http://arxiv.org/abs/1805.05246>.
- Zhang, L., D. Tiwari, B. Morin, B. Baudry, and M. Monperrus. *Automatic Observability for Dockerized Java Applications*. 2019. arXiv: 1912.06914 [cs.SE].
- Zhang, X., N. Mohan, M. Törngren, J. Axelsson, and D.-J. Chen. “Architecture Exploration for Distributed Embedded Systems: A Gap Analysis in Automotive Domain”. In: *12th IEEE International Symposium on Industrial Embedded Systems, SIES 2017, Ecole Nationale supérieure d'Electrotechnique, d'Electronique, d'Informatique et des Telecommunications (INP-ENSEEIH) Toulouse, France, 14 June 2017 through 16 June 2017*. Institute of Electrical and Electronics Engineers (IEEE). 2017.