Fakultät für Informatik

Name:
2018

Occurences:
· Einrichtungen > Fakultäten > Fakultät für Informatik > Lehrstühle der Informatik > Informatik 6 - Lehrstuhl für Echtzeitsysteme und Robotik (Prof. Knoll)
entries:

[1/55]: Bing, Zhenshan; Meschede, Claus; Huang, Kai; Chen, Guang; Röhrbein, Florian; Akl, Mahmoud; Knoll, Alois; End to End Learning of Spiking Neural Network based on R-STDP for a Lane Keeping Vehicle, to be appear; 2018 IEEE International Conference on Robotics and Automation (ICRA); 2018

[2/55]: Giusti, A.; Althoff, M.; On-The-Fly Control Design of Modular Robot Manipulators; IEEE Transactions on Control Systems Technology; 2018; 26; 4; 1484-1491


[4/55]: Rickert, Markus; Gaschler, Andre; Knoll, Alois; Applications in HHI: Physical Cooperation: Humanoid Robotics: A Reference; Goswami, Ambarish; Vadakkepat, Prahlad; Springer; 2018

[5/55]: Söntges, S.; Althoff, M.; Computing the Drivable Area of Autonomous Road Vehicles in Dynamic Road Scenes; IEEE Transactions on Intelligent Transportation Systems; 2018; 19; 6; 1855-1866

[6/55]: Wagner, M.; Liu, S. B.; Giusti, A.; Althoff, M.; Interval-Arithmetic-Based Trajectory Scaling and Collision Detection for Robots with Uncertain Dynamics; Proc. of the IEEE International Conference on Robotic Computing; 2018

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[7/55]: Lucas, Peer; Walter, Florian; Knoll, Alois, Design of a Biomimetic Rodent Robot, 2018

[8/55]: Stefan Kugele, David Hettler, Sina Shafaei, Elastic Service Provision for Intelligent Vehicle Functions, 2018

[9/55]: Sina Shafaei, Fabian Müller, Tim Salzmann, Morteza Hashemi Farzaneh, Stefan Kugele, Alois Knoll, Context Prediction Architectures in Next Generation of Intelligent Cars, 2018

[10/55]: Mesut Kuscu, Sina Shafaei and Alois Knoll, Abnormal Driver Behavior Detection for Automated Emotion Recognition (Poster), 2018

[11/55]: Albanese, Ugo; Sharma, Kenny; Feldotto, Benedikt; Akl, Mahmoud; Weber, Sandro; Mahmud, Hossain; Angelidis, Manos; von Arnim, Axel; Cantero, Kepa; Hinkel, Georg; Aichele, Fabian; Welter, Michael; Murphy, Susie; Guyot, Luc; Sousa, Claudio; Schmid, Yves; Gewaltig, Marc-Oliver, HBP Neuorobotics Platform, Zenodo, 2017


[13/55]: Althoff, M.; Lutz, S., Automatic Generation of Safety-Critical Test Scenarios for Collision Avoidance of Road Vehicles, Proc. of the IEEE Intelligent Vehicles Symposium, 2018

[14/55]: Asen, Ludwig; Martens, Sladjana; Heiz, Ueli; Knoll, Alois C.; Schneider, Oliver, Electrodeposition of Pt and Gd from the Same Ionic Liquid, ECS Transactions, 2018, 86, 13, 475-487

[15/55]: Bernhard, J.; Gieselmann, R.; Esterle, K.; Knoll, A., Experience-Based Heuristic Search: Robust Motion Planning with Deep Q-Learning, 2018 21st International Conference on Intelligent Transportation Systems (ITSC), 2018

[16/55]: Bing, Zhenshan; Meschede, Claus; Röhrbein, Florian; Huang, Kai; Knoll, Alois C., A Survey of Robotics Control Based on Learning-Inspired Spiking Neural Networks, Frontiers in Neurorobotics, 2018, 12

[17/55]: Cheng, Chih-Hong; Diehl, Frederik; Hinz, Gereon; Hamza, Yassine; Nührenberg, Georg; Rickert, Markus; Rueß, Harald; Truong-Le, Michael, Neural Networks for Safety-Critical Applications - Challenges, Experiments and Perspectives, Proceedings of the Design, Automation & Test in Europe Conference & Exhibition (DATE), 2018

[18/55]: Esterle, Klemens; Hart, Patrick; Bernhard, Julian; Knoll, Alois, Spatiotemporal Motion Planning with Combinatorial Reasoning for Autonomous Driving, IEEE International Conference on Intelligent Transportation Systems, 2018

[19/55]: Feldotto, Benedikt; Orpana, Markus; Knoll, Alois, A Control Hierarchy Inpsired by the Spinal Cord to Exploit Self-Organizing Motion Primitives for Purposeful Trajectory Generation, Proceedings of The 28th Annual Conference of the Japanese Neural Network Society, 2018

[20/55]: Feldotto, Benedikt; Walter, Florian; Röhrbein, Florian; Knoll, Alois, Hebbian learning for online prediction, neural recall and classical conditioning of anthropomimetic robot arm motions, Bioinspiration & Biomimetics,
2018, 13, 6, 066009

[21/55]: Gruber, Felix; Althoff, Matthias, Anytime Safety Verification of Autonomous Vehicles, 1708-1714, IEEE 21st International Conference on Intelligent Transportation Systems (ITSC), 2018

[22/55]: Gulati, Dhiraj and Aravantinos, Vincent and Somani Nikhil and Knoll, Alois, Robust Vehicle Infrastructure Cooperative Localization in Presence of Clutter, 21st International Conference on Information Fusion (FUSION), 2018


[24/55]: Liang, Yunchang; McLaughlin, David; Csoklich, Christoph; Schneider, Oliver; Bandarenka, Aliaksandr S., The nature of active centers catalyzing oxygen electro-reduction at platinum surfaces in alkaline media, Energy & Environmental Science, 2019

[25/55]: Liang, Yunchang; Pfisterer, Jonas H. K.; McLaughlin, David; Csoklich, Christoph; Seidl, Lukas; Bandarenka, Aliaksandr S.; Schneider, Oliver, Electrochemical Scanning Probe Microscopies in Electrocatalysis, Small Methods, 2018, 1800387

[26/55]: Lin, Jianjie; Somani, Nikhil; Hu, Biao; Rickert, Markus; Knoll, Alois, An Efficient and Time-Optimal Trajectory Generation Approach for Waypoints under Kinematic Constraints and Error Bounds, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2018


[32/55]: Martens, Sladjana; Asen, Ludwig; Ercolano, Giorgio; Dionigi, Fabio; Zalitis, Chris; Hawkins, Alex; Martinez Bonastre, Alejandro; Seidl, Lukas; Knoll, Alois C.; Sharman, Jonathan; Strasser, Peter; Jones, Deborah; Schneider, Oliver, A comparison of rotating disc electrode, floating electrode technique and membrane electrode assembly measurements for catalyst testing, Journal of Power Sources, 2018, 392, 274-284

[33/55]: Marzak, Philipp; Yun, Jeongsik; Dorsel, Albrecht; Kriele, Armin; Gilles, Ralph; Schneider, Oliver; Bandarenka, Aliaksandr S., Electrodeposited Na2Ni[Fe(CN)6] Thin-Film Cathodes Exposed to Simulated Aqueous Na-Ion Battery Conditions, The Journal of Physical Chemistry C, 2018, 122, 16, 8760-8768

[34/55]: Matthias Althoff; Stefan Urban; Markus Koschi, Automatic Conversion of Road Networks from OpenDRIVE to Lanelets, Proc. of the IEEE International Conference on Service Operations and Logistics, and Informatics, 2018


[36/55]: Obergfell, Philipp; Segler, Christoph; Sax, Eric; Knoll, Alois, Synchronization between Run-Time and Design-Time View of Context-Aware Automotive System Architectures, 2018 IEEE International Systems Engineering Symposium (ISSE), IEEE, 2018

[37/55]: Pfisterer, Jonas; Liang, Yunchang; Schneider, Oliver; Bandarenka, Aliaksandr, Katalytisch aktive Zentren direkt abgebildet, Physik in unserer Zeit, 2018, 49, 1, 6-7

[38/55]: Saasha Nair, Sina Shafaei, Stefan Kugele, Mohd Hafeez Osman and Alois Knoll, Monitoring Safety of Autonomous Vehicles with Crash Prediction Networks, The AAAI's Workshop on Artificial Intelligence Safety,
[39/55]: Schneider, O., Size Dependent Electrocatatalysis of Gold Nanoparticles, Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry, Elsevier, 2018

[40/55]: Schürmann, Bastian; Kochdumper, Niklas; Althoff, Matthias, Reachset Model Predictive Control for Disturbed Nonlinear Systems, Proc. of the 57th IEEE Conference on Decision and Control, 2018

[41/55]: Sebastian Wagner; Korbinian Groh; Thomas Kühbeck; Michael Dörfel; Alois Knoll, Using Time-to-React based on Naturalistic Traffic Object Behavior for Scenario-Based Risk Assessment of Automated Driving, Proc. of the IEEE Intelligent Vehicles Symposium, IEEE, 2018

[42/55]: Seidl, Lukas; Asen, Ludwig; Yesilbas, Göktug; Fischer, Pauline; Kühn, Fritz; Schneider, Oliver, (Invited) Ultrasound Application and Multi-Step Reactions in Electrodeposition of Refractory Metals, ECS Transactions, 2018, 86, 14, 3-19

[43/55]: Si, Huinan; Seidl, Lukas; Chu, Eileen Miao Ling; Martens, Slana; Ma, Jiwei; Qiu, Xinping; Stimming, Ulrich; Schneider, Oliver, Impact of the Morphology of V2O5 Electrodes on the Electrochemical Na+-Ion Intercalation, Journal of The Electrochemical Society, 2018, 165, 11, A2709-A2717

[44/55]: Sina Shafaei, Stefan Kugele, Mohd Hafeez Osman and Alois Knoll, Uncertainty in Machine Learning: A Safety Perspective on Autonomous Driving, First International Workshop on Artificial Intelligence Safety Engineering, SAFECOMP Conference, Västerås, Sweden, 2018


[47/55]: Söntges, Sebastian; Koschi, Markus; Althoff, Matthias, Worst-case Analysis of the Time-To-React Using Reachable Sets, Proc. of the IEEE Intelligent Vehicles Symposium, 2018

[48/55]: Walter, Florian; Morin, Fabrice O.; Knoll, A., Multisensory Integration in the HBP Neurorobotics Platform, Proceedings of The 28th Annual Conference of the Japanese Neural Network Society, 2018

[49/55]: Xiebing Wang, Christopher Kiwus, Canhao Wu, Biao Hu, Kai Huang and Alois Knoll, Implementing and Parallelizing Real-time Lane Detection on Heterogeneous Platforms, IEEE 29th International Conference on Application-specific Systems, Architectures and Processors (ASAP), 2018

[50/55]: Zhou*, Mingchuan; Hamad*, Mahdi; Weiss, Jakob; Esnami, Abouzar; Huang, Kai; Maier, Mathias; Lohmann, Chris P.; Navab, Nassir; Knoll, Alois; Nasser, M. Ali, Towards Robotic Eye Surgery: Marker-free, Online Hand-eye Calibration using Optical Coherence Tomography Images, to be appear., IEEE Robotics and Automation Letters (also presented at IROS 2018), 2018

[51/55]: Zhou, Mingchuan; Ayad, Mohamad; Huang, Kai; Maier, Mathias; Lohmann, Chris P.; Lin, Haotian; Navab, Nassir; Knoll, Alois; Nasser, M. Ali, Robot Learns Skills from Surgeon for Subretinal Injection., 2018 IEEE International Conference on Robotics and Automation(ICRA)- Workshop on Supervised Autonomy in Surgical Robotics, 2018

[52/55]: Zhou, Mingchuan; Cheng, Long; Dell'Antonio, Manuel; Wang, Xiebing; Bing, Zhenshan; Nasser, M. Ali; Huang, Kai; Knoll, Alois, Peak Temperature Minimization for Hard Real-time Systems using DVS and DPM., Journal of Circuits, Systems and Computers, 2018

[53/55]: Zhou, Mingchuan; Huang, Kai; Esnami, Abouzar; Roodaki, Hessam; Zapp, Daniel; Maier, Mathias; Lohmann, Chris P.; Knoll, Alois; Nasser, M. Ali, Precision Needle Tip Localization using Optical Coherence Tomography Images for Subretinal Injection, to be appear., 2018 IEEE International Conference on Robotics and Automation(ICRA), 2018

[54/55]: Zhou, Mingchuan; Jiang, Huanyu; Shi, Weinan; Knoll, Alois, Design and Optimization of the Target Spray Platform., 2018 IEEE International Conference on Robotics and Automation(ICRA)-Workshop on Robotic Vision and Action in Agriculture, 2018

[55/55]: Zhu, A.; Manzinger, S.; Althoff, M., Evaluating Location Compliance Approaches for Automated Road Vehicles, Proc. of the IEEE Intelligent Vehicles Symposium, 2018