Name: 2015

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

[1/111]: Akl, Mahmoud; Walter, Florian; Röhrbein, Florian, Learning Spiking Neural Controllers for In-silico Navigation Experiments, 2015


[4/111]: Ivanchev, Jordan; Aydt, Heiko; Knoll, Alois, Routing Choice Information Maximising Robust Optimal Sensor Placement Against Variations of Traffic Demand Based on Importance of Nodes, 2015

[5/111]: Gaschler, Andre; Fischer, Quirin; Knoll, Alois, The Bounding Mesh Algorithm, 2015


[8/111]: Barthele, Alexander; Trematerra, Diego; Nasseri, M. Ali; Zapp, Daniel; Lohmann, Chris P.; Knoll, Alois; Maier, Mathias, Haptic Interface for Robot-assisted Ophthalmic Surgery, Proceedings of the 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC’15), 2015

[9/111]: Becker, Klaus; Frtunikj, Jelena; Felser, Meik; Fiege, Ludger; Buckl, Christian; Rothbauer, Stefan; Zhang, Licong; Klein, Cornel, RACE RTE: A Runtime Environment for Robust Fault-Tolerant Vehicle Functions, CARS Workshop, 11th European Dependable Computing Conference - Dependability in Practice, IEEE, 2015

[10/111]: Buechel, Martin; Frtunikj, Jelena; Becker, Klaus; Sommer, Stephan; Buckl, Christian; Armbruster, Michael; Marek, Andre; Zirkler, Andreas; Klein, Cornel; Knoll, Alois, An Automated Electric Vehicle Prototype Showing New Trends in Automotive Architectures, International Conference on Intelligent Transportation Systems (ITSC 2015), IEEE, 2015

[11/111]: Cai, Caixia; Somani, Nikhil; Rickert, Markus; Knoll, Alois, Prioritized Motion-Force Control of Multi-Constraints for Industrial Manipulators, Proceedings of the IEEE International Conference on Robotics and Biomimetics (ROBIO), 2015

[12/111]: Chen, Chao; Gaschler, Andre; Rickert, Markus; Knoll, Alois, Task Planning for Highly Automated Driving, Proceedings of the IEEE Intelligent Vehicles Symposium (IV), 2015


[14/111]: Chen, Chao; Rickert, Markus; Knoll, Alois, Path Planning with Orientation-Aware Space Exploration Guided Heuristic Search for Autonomous Parking and Maneuvering, Proceedings of the IEEE Intelligent Vehicles Symposium (IV), 2015

[15/111]: Chen, Gang; Hu, Biao; Huang, Kai; Knoll, Alois; Huang, Kai; Liu, Di; Stefanov, Todor; Li, Feng, Reconfigurable Cache for Real-time MPSoCs: Scheduling and Implementation, 2015

[16/111]: Chen, Gang; Huang, Kai; Buckl, Christian; Knoll, Alois, Applying Pay-burst-only-once Principle for Periodic Power Management in Hard Real-time Pipelined Multiprocessor Systems, ACM Transactions on Design Automation of Electronic Systems (TODAES), 2015, February

[17/111]: Chen, Guang; Clarke, Daniel; Giuliani, Manuel; Gaschler, Andre; Knoll, Alois, Combining unsupervised learning and discrimination for 3d action recognition, Signal Processing, Elsevier, accepted, 2015


[20/111]: Ciechanowicz, David; Pelzer, Dominik; Knoll, Alois, Simulation-based approach for investigating the impact of electric vehicles on power grids, 2015 IEEE PES Asia-Pacific Power and Energy Engineering Conference (APPEEC), IEEE, 2015


[25/111]: Emeç Erçelik, Neslihan Serap Şengör, A neurocomputational model implemented on humanoid robot for learning action selection, Neural Networks (IJCNN), 2015 International Joint Conference on, 2015

[26/111]: Emeç Erçelik, Rahmi Elibol, Neslihan Serap Şengör, A model on building and modifying the stimulus action association in the brain, Signal Processing and Communications Applications Conference (SIU), 2015 23th, 2015

[27/111]: Froehlich, Joachim; Frtunikj, Jelena; Knoll, Alois, Testing the Resilience of Fail-Operational Systems Early On with Non-Intrusive Data Seeding, 1st International ESWEEK Workshop on Resiliency in Embedded Electronic System, IEEE, 2015

[28/111]: Frtunikj, Jelena; Froehlich, Joachim; Rohlfis, Tim; Knoll, Alois, Qualitative Evaluation of Fault Hypotheses with Non-Intrusive Fault Injection, 5th IEEE International Workshop on Software Certification, ISSRE 2015, IEEE, 2015

[29/111]: Garcia, A. Mendoza; Eichhorn, S.; Stroh, Annemarie; Polski, M.; Knoll, A., Preliminary Comparison Study of Two Electro-Mechanical Cardiopulmonary Resuscitation Devices, accepted in Computing in Cardiology Conference (CINC, 2015


[33/111]: Griffiths, Sascha AND Voss, Laura AND Röhrbein, Florian, Proximity in Industry-Academia Collaborations: The Case of the ECHORD Project, 2015

[34/111]: Han, D.; Althoff, M., Control Synthesis for Non-Polynomial Systems: A Domain of Attraction Perspective, Proc. of the 54th IEEE Conference on Decision and Control, 2015

[35/111]: Haro, Luis Fernando D; Niculescu, Andreea; Vijayalingam, Aravindkumar; Gutierrez, Marco; Nair, Suraj; Banchs, Rafael, The path to success: Failures in rEal Robots (FinE-R), FinE-R 2015 The path to success: Failures in Real Robots, IROS2015, 2015

[36/111]: Hashemi Farzaneh, M.; Knoll, A.; Pfeiffer, J., OPART: Towards an Open Platform for Abstraction of real-time communication in cross-domain applications, 6th International Conference on Automation, Robotics and Applications (ICARA), 2015

[37/111]: Heise, Philipp; Jensen, Brian; Klose, Sebastian; Knoll, Alois, Variational PatchMatch MultiView Reconstruction and Refinement, International Conference on Computer Vision (ICCV), 2015

[38/111]: Heise, Philipp; Jensen, Brian; Klose, Sebastian; Knoll, Alois, Fast Dense Stereo Correspondences by Binary Locality Sensitive Hashing, IEEE International Conference on Robotics and Automation (ICRA), 2015


[41/111]: Ievgen Smielik, Klaus Müller, and Klaus-Dieter Kuhnert, Fish motion simulation, 29th European Simulation and Modelling Conference, 2015

[43/111]: Ivanchev, Jordan; Aydt, Heiko; Knoll, Alois, Spatial and Temporal Analysis of Mismatch Between Planned Road Infrastructure and Traffic Demand in Large Cities, 18th IEEE International Conference on Intelligent Transportation Systems (ITSC), 2015

[44/111]: Ivanchev, Jordan; Aydt, Heiko; Knoll, Alois, On Identifying Dynamic Intersections in Large Cities, 18th IEEE International Conference on Intelligent Transportation Systems (ITSC), 2015


[46/111]: Ju, Wenbo; Brülle, Tine; Favaro, Marco; Perini, Lorenzo; Durante, Christian; Schneider, Oliver; Stimming, Ulrich, Palladium Nanoparticles Supported on Highly Oriented Pyrolytic Graphite: Preparation, Reactivity and Stability, ChemElectroChem, 2015, 2, 4, 547--558


[50/111]: Keddis, Nadine; Zoitl, Alois; Knoll, Alois, Adaptable Capability-Based Planning, IFAC-PapersOnLine, 2015, 48, 3, 1204--1209

[51/111]: Knoll, Jordan Ivanchev AND Heiko Aydt AND Alois, Information Maximising Optimal Sensor Placement Robust Against Variations of Traffic Demand Based on Importance of Nodes, 2015


[53/111]: Lenz, David; Kessler, Tobias; Knoll, Alois, Stochastic model predictive controller with chance constraints for comfortable and safe driving behavior of autonomous vehicles, 2015 IEEE Intelligent Vehicles Symposium (IV), IEEE, 2015

[54/111]: Lenz, David; Rickert, Markus; Knoll, Alois, Heuristic Search in Belief Space for Motion Planning under Map and Actuator Uncertainties, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015

[55/111]: Litescu, Sorina; Viswanathan, Vaisagh; Lees, Michael; Knoll, Alois; Aydt, Heiko, Information Impact on Transportation Systems, accepted by) Journal of Computational Science, 2015


[58/111]: Mockr, Marina S. L.; Schiller, Manuel; Brem, Robert; Sun, Zuguang; Tazi, Hicham; Eibert, Thomas F.; Knoll, Alois, Combination of Full Wave Methods and Ray Tracing for Radiation Pattern Simulations of Antennas on Vehicle Roofs, Antennas and Propagation (EUCAP), 2015 9th European Conference on, 2015


[60/111]: Morel, Yannick; Lebastard, Vincent; Boyer, Frederic, Neural-based underwater spherical object localization through electrolocation, 2015 IEEE International Conference on Robotics and Automation (ICRA), IEEE, 2015

[61/111]: Mühlbacher-Karrer, Stephan; Gaschler, Andre; Zangl, Hubert, Responsive Fingers -- Capacitive Sensing During Object Manipulation, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015

[63/111]: Ni, Peng; Vo, Hoang Tam; Dahlmeier, Daniel; Cai, Wentong; Ivanchev, Jordan; Aydt, Heiko, DEPART: Dynamic Route Planning in Stochastic Time-Dependent Public Transit Networks, 18th IEEE International Conference on Intelligent Transportation Systems (ITSC), 2015

[64/111]: Pelzer, Dominik; Xiao, Jiajan; Zehe, Daniel; Lees, Michael; Knoll, Alois; Aydt, Heiko, A Partition-Based Match Making Algorithm for Dynamic Ridesharing, IEEE Transactions on Intelligent Transportation Systems, 2015


[66/111]: Perini, Lorenzo; Durante, Christian; Favaro, Marco; Perazzolo, Valentina; Agnoli, Stefano; Schneider, Oliver; Granozzi, Gaetano; Gennaro, Armando, Metal-Support Interaction in Platinum and Palladium Nanoparticles Loaded on Nitrogen Doped Mesoporous Carbon for Oxygen Reduction Reaction, ACS Applied Materials & Interfaces, 2015, 7, 1170-1179

[67/111]: Perzylo, Alexander; Griffiths, Sascha; Lafrenz, Reinhard; Knoll, Alois, Generating Grammars for Natural Language Understanding from Knowledge about Actions and Objects, Proceedings of the IEEE International Conference on Robotics and Biomimetics (ROBIO), 2015


[69/111]: Perzylo, Alexander; Somani, Nikhil; Profanter, Stefan; Rickert, Markus; Knoll, Alois, Multimodal binding of parameters for task-based robot programming based on semantic descriptions of modalities and parameter types, Proceedings of the Workshop on Multimodal Semantics for Robotic Systems, IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015


[71/111]: Perzylo, Alexander; Somani, Nikhil; Rickert, Markus; Knoll, Alois, An ontology for CAD data and geometric constraints as a link between product models and semantic robot task descriptions, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015


[73/111]: Profanter, Stefan, Industrial HRI Experiments in the SMErobotics project, Invited speaker, 2015

[74/111]: Profanter, Stefan; Perzylo, Alexander; Somani, Nikhil; Rickert, Markus; Knoll, Alois, Analysis and Semantic Modeling of Modality Preferences in Industrial Human-Robot Interaction, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015


[76/111]: Retamino, Eloy; Nair, Suraj; Vijayalingam, Aravindkumar; Knoll, Alois, Architecture and representation for handling dialogues in human-robot interactions, 2015 Asia-Pacific Signal and Information Processing Association Annual Summit and Conference (APSIPA), IEEE, 2015


[80/111]: Roitberg, Alina; Somani, Nikhil; Perzylo, Alexander; Rickert, Markus; Knoll, Alois, Multimodal Human Activity Recognition for Industrial Manufacturing Processes in Robotic Workcells, Proceedings of the ACM International Conference on Multimodal Interaction (ICMI), 2015
[81/111]: Röhrbein, Florian; Goddard, Peter; Schneider, Michael; James, Georgina; Guo, Kun, How does image noise affect actual and predicted human gaze allocation in assessing image quality?, Vision Research, 2015, 112, 11 - 25


[83/111]: Saalfrank, Dirk; Kunduri, Anil Krishna; Latifi, Shahrzad; Habibey, Rouhollah; Golabchi, Asiyeh; Martinuic, Aurel Vasile; Knoll, Alois; Ingebrandt, Sven; Blau, Axel, Incubator-independent cell-culture perfusion platform for continuous long-term microelectrode array electrophysiology and time-lapse imaging, 2015

[84/111]: Schiller, Manuel; Behrens, Thomas; Knoll, Alois, Multi-Resolution-Modeling for Testing and Evaluation of VANET applications, 18th IEEE International Conference on Intelligent Transport Systems (ITSC), 2015

[85/111]: Schiller, Manuel; Dupuis, Marius; Krajzewicz, Daniel; Kern, Andreas; Knoll, Alois, Multi-Resolution Traffic Simulation for Large Scale High Fidelity Evaluation of VANET Applications, SUMO User Conference 2015 - Intermodal Simulation for Intermodal Transport, 2015


[87/111]: Schiller, Manuel; Mocke, Marina; Knoll, Alois; Eibert, Thomas, GPU Accelerated Ray Launching for High-Fidelity Virtual Test Drives of VANET Applications, High Performance Computing & Simulation (HPCS), 2015 International Conference on, 2015

[88/111]: Schneider, Michael AND Guo, Kun AND Röhrbein, Florian, Comparison of models of visual attention in degraded images, European Conference on Eye Movements (ECEM), Vienna, 2015


[90/111]: Somani, Nikhil; Gaschler, Andre; Rickert, Markus; Perzylo, Alexander; Knoll, Alois, Constraint-Based Task Programming with CAD Semantics: From Intuitive Specification to Real-Time Control, Proceedings of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2015

[91/111]: Somani, Nikhil; Perzylo, Alexander; Cai, Caixia; Rickert, Markus; Knoll, Alois, Object detection using boundary representations of primitive shapes, Proceedings of the IEEE International Conference on Robotics and Biomimetics (ROBIO), 2015


[93/111]: Thiele, Bernhard AND Knoll, Alois AND Fritzson, Peter, Towards Qualifiable Code Generation from a Clocked Synchronous Subset of Modelica, Modeling, Identification and Control, 2015, 36, 1, 23–52

[94/111]: Vannucci, Lorenzo; Ambrosano, Alessandro; Cauli, Nino; Albanese, Ugo; Falotico, Egidio; Ulbrich, Stefan; Pfotzer, Lars; Hinkel, Georg; Denninger, Oliver; Peppicelli, Daniel; Guyot, Luc; Von Arnim, Axel; Deser, Stefan; Maier, Patrick; Dillman, Rudiger; Klinker, Gundrun; Levi, Paul; Knoll, Alois; Gewaltig, Marc-Oliver; Laschi, Cecilia, A visual tracking model implemented on the iCub robot as a use case for a novel neurorobotic toolkit integrating brain and physics simulation, 2015 IEEE-RAS 15th International Conference on Humanoid Robots (Humanoids), IEEE, 2015


[97/111]: Wagner, Michael; Viswanathan, Vaisagh; Pelzer, Dominik; Berger, Matthias; Aydt, Heiko, Cellular Automata-based Anthropogenic Heat Simulation, accepted by) International Conference On Computational Science 2015, 2015

[98/111]: Walter, Florian, Learning like the Brain: A Neuroscientific Perspective on Machine Learning and Robotics, Japan-EU Workshop on Neurorobotics, 2015
[99/111]: Walter, Florian; Röhrbein, Florian, Neurorobotics: Learning from the Brain, European Robotics Forum, 2015

[100/111]: Walter, Florian; Röhrbein, Florian; Knoll, Alois, Computation by Time, Neural Processing Letters, 2015

[101/111]: Walter, Florian; Röhrbein, Florian; Knoll, Alois, Learning Techniques for Neurorobotics -- A Survey on the Role of the Factor Time, IROS 2015 Workshop on Advances in Biologically Inspired Brain-Like Cognition and Control for Learning Robots, 2015

[102/111]: Walter, Florian; Röhrbein, Florian; Knoll, Alois, Neuromorphic implementations of neurobiological learning algorithms for spiking neural networks, Neural Networks, 2015

[103/111]: Walter, Florian; Röhrbein, Florian; Ulbrich, Stefan; Dillmann, Rüdiger, Advances in Biologically Inspired Brain-Like Cognition and Control for Learning Robots, Intelligent Robots and Systems (IROS 2015), 2015 IEEE/RSJ International Conference on, 2015


[105/111]: Zehe, Daniel; Cai, Wentong; Knoll, Alois; Aydt, Heiko, Tutorial on a modeling and simulation cloud service, 2015 Winter Simulation Conference (WSC), IEEE, 2015

[106/111]: Zehe, Daniel; Grotzky, David; Aydt, Heiko, Traffic Simulation Performance Optimization through Multi-Resolution Modeling of Road Segments, 2015


[108/111]: Zehe, Daniel; Knoll, Alois; Cai, Wentong; Aydt, Heiko, SEMSim Cloud Service: Large-scale urban systems simulation in the cloud, Simulation Modelling Practice and Theory, 2015, 58, 157-171

[109/111]: Zehe, Daniel; Knoll, Alois; Cai, Wentong; Aydt, Heiko, SEMSim Cloud Service: Large-Scale Urban Systems Simulation in the Cloud, Simulation Modelling Practice and Theory, accepted, 2015

[110/111]: Zhang, Feihu; Clarke, Daniel; Knoll, Alois, Visual odometry based on a Bernoulli filter, International Journal of Control, Automation and Systems, 2015, April

[111/111]: Zhang, Feihu; Hinz, Gereon; Clarke, Daniel; Knoll, Alois, Vehicle-Infrastructure Localization Based on the SME Filter, 2015 IEEE 18th International Conference on Intelligent Transportation Systems, IEEE, 2015