Name: Alumni Focus Groups

Occurences:
- Einrichtungen > Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics
Entries:

Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics > Alumni Focus Groups > Focus Group: Automated Controller Synthesis

[1/204]: Esparza, Javier; Kuperberg, Denis; Muscholl, Anca; Walukiewicz, Igor; Soundness in negotiations; Logical Methods in Computer Science; Volume 14; 2018; Issue 1; 1860-5974

[2/204]: La Torre, Salvatore; Muscholl, Anca; Walukiewicz, Igor; Safety of Parametrized Asynchronous Shared-Memory Systems is Almost Always Decidable; Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik GmbH, Wadern/Saarbruecken, Germany; 2015

[3/204]: Baschenis, Félix; Gauwin, Olivier; Muscholl, Anca; Puppis, Gabriele; Minimizing Resources of Sweeping and Streaming String Transducers; Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik GmbH, Wadern/Saarbruecken, Germany; 2016

[4/204]: Almagor, Shaull; Kuperberg, Denis; Kupferman, Orna; The Sensing Cost of Monitoring and Synthesis; Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik GmbH, Wadern/Saarbruecken, Germany; 2015

[5/204]: Mundhenk, Philipp; Steinhorst, Sebastian; Lukasiewycz, Martin; Fahmy, Suhail A.; Chakraborty, Samarjit; Security analysis of automotive architectures using probabilistic model checking; Proceedings of the 62nd Annual Design Automation Conference on - DAC '15; ACM Press; 2015

[6/204]: Rungger, Matthias; Zamani, Majid; Compositional construction of approximate abstractions; Proceedings of the 18th International Conference on Hybrid Systems Computation and Control - HSCC '15; ACM Press; 2015

[7/204]: Chang, Wanli; Roy, Debayan; Zhang, Licong; Chakraborty, Samarjit; Model-based design of resource-efficient automotive control software; Proceedings of the 35th International Conference on Computer-Aided Design - ICCAD '16; ACM Press; 2016

[8/204]: Macedo, Nuno; Brunel, Julien; Chemouil, David; Cunha, Alcino; Kuperberg, Denis; Lightweight specification and analysis of dynamic systems with rich configurations; Proceedings of the 2016 24th ACM SIGSOFT International Symposium on Foundations of Software Engineering - FSE 2016; ACM Press; 2016

[9/204]: Roy, Debayan; Zhang, Licong; Chang, Wanli; Goswami, Dip; Chakraborty, Samarjit; Multi-Objective Co-Optimization of FlexRay-Based Distributed Control Systems; 2016 IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS); IEEE; 2016

[10/204]: Yunge, Daniel; Park, Sangyoung; Kindt, Philipp; Pravadelli, Graziano; Chakraborty, Samarjit; Dynamic service synthesis and switching for medical IoT and ambient assisted living; 2016 IEEE International High Level Design Validation and Test Workshop (HLDVT); IEEE; 2016

[11/204]: Althoff, Daniel; Althoff, Matthias; Scherer, Sebastian; Online safety verification of trajectories for unmanned flight with offline computed robust invariant sets; 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS); IEEE; 2015

[12/204]: Zamani, Majid; Abate, Alessandro; Girard, Antoine; Symbolic models for stochastic switched systems: A discretization and a discretization-free approach; Automatica; 2015; 55; 183-196

[13/204]: Muscholl, Anca; Seidl, Helmut; Walukiewicz, Igor; Reachability for Dynamic Parametric Processes; Lecture Notes in Computer Science; Springer International Publishing; 2017

[14/204]: Saha, Ratul; Esparza, Javier; Jha, Sumit Kumar; Mukund, Madhavan; Thiagarajan, P. S.; Distributed Markov Chains; Lecture Notes in Computer Science; Springer Berlin Heidelberg; 2015

[15/204]: Muscholl, Anca; Automated Synthesis of Distributed Controllers; Automata, Languages, and Programming; Springer Berlin Heidelberg; 2015

[16/204]: Durand-Gasselin, Antoine; Esparza, Javier; Ganty, Pierre; Majumdar, Rupak; Model Checking Parameterized Asynchronous Shared-Memory Systems; Computer Aided Verification; Springer International Publishing; 2015

[17/204]: Kuperberg, Denis; Brunel, Julien; Chemouil, David; On Finite Domains in First-Order Linear Temporal Logic; Automated Technology for Verification and Analysis; Springer International Publishing; 2016

[18/204]: Esparza, Javier; Muscholl, Anca; Walukiewicz, Igor; Static analysis of deterministic negotiations; 2017 32nd Annual ACM/IEEE Symposium on Logic in Computer Science (LICS); IEEE; 2017

[19/204]: Fijalkow, Nathanaël; Gimbert, Hugo; Kelmendi, Edon; Kuperberg, Denis; Stamina: Stabilisation Monoids in Automata Theory; Implementation and Application of Automata; Springer International Publishing;
2017

[20/204]: Mundhenk, Philipp; Steinhorst, Sebastian; Lukasiewycz, Martin; Fahmy, Suhaib A.; Chakraborty, Samarjit; Security analysis of automotive architectures using probabilistic model checking; Proceedings of the 52nd Annual Design Automation Conference on - DAC ’15; Association for Computing Machinery (ACM); 2015

Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics > Alumni Focus Groups > Focus Group: Control and Robotics


[22/204]: De Nijjs, Roderick Sebastiaan; Landsiedel, Christian; Wollherr, Dirk; Buss, Martin; Quadratization and Roof Duality of Markov Logic Networks; Journal of Artificial Intelligence Research; 2016; 55; 685-714

[23/204]: Jenke, Robert; Peer, Angelika; Buss, Martin; Feature Extraction and Selection for Emotion Recognition from EEG; IEEE Transactions on Affective Computing; 2014; 5; 3; 327-339

[24/204]: Donner, Philine; Buss, Martin; Cooperative Swinging of Complex Pendulum-Like Objects: Experimental Evaluation; IEEE Transactions on Robotics; 2016; 32; 3; 744-753

[25/204]: Hayat, Rameez; Buss, Martin; Model identification for robot manipulators using regressor-free adaptive control; 2016 UKACC 11th International Conference on Control (CONTROL); IEEE; 2016

[26/204]: Liu, Fangzhou; Buss, Martin; Optimal control for information diffusion over heterogeneous networks; 2016 IEEE 55th Conference on Decision and Control (CDC); IEEE; 2016

[27/204]: Kersting, Stefan; Buss, Martin; Removing erroneous history stack elements in concurrent learning; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[28/204]: Pekarovskiy, Alexander; Nierhoff, Thomas; Hirche, Sandra; Buss, Martin; Spline deformation of locally optimal trajectories: Feasibility and upper bound on control inputs; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[29/204]: Kersting, Stefan; Buss, Martin; Concurrent learning adaptive identification of piecewise affine systems; 53rd IEEE Conference on Decision and Control; IEEE; 2014

[30/204]: Friedrich, Stefan R.; Buss, Martin; Direct adaptive-Q control for online performance enhancement of switching linear systems; 2016 IEEE 55th Conference on Decision and Control (CDC); IEEE; 2016

[31/204]: Garcia-Rochin, Roberto; Kuhne, Markus; Santiesteban-Cos, Raul; Rubio-Astorga, Guillermo J.; Peer, Angelika; Second-order model for rotary traveling wave ultrasonic motors; 2015 IEEE-RAS 15th International Conference on Humanoid Robots (Humanoids); IEEE; 2015

[32/204]: Donner, Philine; Christange, Franz; Buss, Martin; Adaptive simple pendulum swing-up controller based on the closed-loop fundamental dynamics; 2015 European Control Conference (ECC); IEEE; 2015

[33/204]: Geravand, Milad; Rampeltshammer, Wolfgang; Peer, Angelika; Control of mobility assistive robot for human fall prevention; 2015 IEEE International Conference on Rehabilitation Robotics (ICORR); IEEE; 2015

[34/204]: Christange, Franz; Donner, Philine; Buss, Martin; Energy control for complex pendulums based on tracking of online computed force trajectories; 2015 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2015

[35/204]: Pekarovskiy, Alexander; Nierhoff, Thomas; Schenek, Jochen; Nakamura, Yoshihiko; Hirche, Sandra; Buss, Martin; Online deformation of optimal trajectories for constrained nonprehensile manipulation; 2015 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2015

[36/204]: An, Sang-ik; Lee, Dongheui; Prioritized Inverse Kinematics with Multiple Task Definitions; 2015 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2015

[37/204]: Saveriano, Matteo; An, Sang-ik; Lee, Dongheui; Incremental kinesthetic teaching of end-effector and null-space motion primitives; 2015 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2015

[38/204]: Apostolopoulos, Sotiris; Leibold, Marion; Buss, Martin; Online motion planning over uneven terrain with walking primitives and regression; 2016 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2016
[39/204]: Schill, Markus M.; Gruber, Felix; Buss, Martin; Quasi-direct nonprehensile catching with uncertain object states; 2015 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2015

[40/204]: Shile Li; Seongyong Koo; Dongheui Lee; Real-time and model-free object tracking using particle filter with Joint Color-Spatial Descriptor; 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS); IEEE; 2015

[41/204]: Khan, Sheraz; Wollherr, Dirk; Buss, Martin; Modeling Laser Intensities For Simultaneous Localization and Mapping; IEEE Robotics and Automation Letters; 2016; 1; 2; 692-699

[42/204]: Kersting, Stefan; Buss, Martin; An alternative approach to switching hyperplane estimation in PWA systems; 2015 American Control Conference (ACC); IEEE; 2015

[43/204]: Liu, Fangzhou; Buss, Martin; Node-based SIRS model on heterogeneous networks: Analysis and control; 2016 American Control Conference (ACC); IEEE; 2016

[44/204]: Turnwald, Annemarie; Althoff, Daniel; Wollherr, Dirk; Buss, Martin; Understanding Human Avoidance Behavior: Interaction-Aware Decision Making Based on Game Theory; International Journal of Social Robotics; 2016; 8; 2; 331-351

[45/204]: Apostolopoulos, Sotiris; Leibold, Marion; Buss, Martin; Energy Efficient and Robust Balancing with Motion Primitive Switching; International Journal of Humanoid Robotics; 2017; 14; 03; 1750009

[46/204]: Pekarovskiy, Alexander; Nierhoff, Thomas; Hirche, Sandra; Buss, Martin; Dynamically Consistent Online Adaptation of Fast Motions for Robotic Manipulators; IEEE Transactions onRobotics; 2018; 34; 1; 166-182

[47/204]: Friedrich, Stefan R.; Buss, Martin; A robust stability approach to robot reinforcement learning based on a parameterization of stabilizing controllers; 2017 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2017

[48/204]: Kersting, Stefan; Buss, Martin; Recursive estimation in piecewise affine systems using parameter identifiers and concurrent learning; International Journal of Control; 2017; 1-18

[49/204]: Yiyong Sun; Zengjie Zhang; Leibold, Marion; Hayat, Rameez; Wollherr, Dirk; Buss, Martin; Protective control for robot manipulator by sliding mode based disturbance reconstruction approach; 2017 IEEE International Conference on Advanced Intelligent Mechatronics (AIM); IEEE; 2017

[50/204]: Kersting, Stefan; Buss, Martin; How to Systematically Distribute Candidate Models and Robust Controllers in Multiple-Model Adaptive Control: A Coverage Control Approach; IEEE Transactions on Automatic Control; 2018; 63; 4; 1075-1089

[51/204]: Khan, Sheraz; Wollherr, Dirk; Buss, Martin; Adaptive rectangular cuboids for 3D mapping; 2015 IEEE International Conference on Robotics and Automation (ICRA); Institute of Electrical and Electronics Engineers (IEEE); 2015

[52/204]: Kai Hu; Ott, Christian; Dongheui Lee; Online iterative learning control of zero-moment point for biped walking stabilization; 2015 IEEE International Conference on Robotics and Automation (ICRA); Institute of Electrical and Electronics Engineers (IEEE); 2015

[53/204]: Apostolopoulos, Sotiris; Leibold, Marion; Buss, Martin; Settling time reduction for underactuated walking robots; 2015 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS); Institute of Electrical and Electronics Engineers (IEEE); 2015

[54/204]: Kersting, Stefan; Buss, Martin; Removing erroneous history stack elements in concurrent learning; 2015 54th IEEE Conference on Decision and Control (CDC); Institute of Electrical and Electronics Engineers (IEEE); 2015

[55/204]: Koropouli, Vasiliki; Hirche, Sandra; Lee, Dongheui; Generalization of Force Control Policies from Demonstrations for Constrained Robotic Motion Tasks; Journal of Intelligent & Robotic Systems; 2015; 80; S1; 133-148

[56/204]: Klare, Stefan; Peer, Angelika; Haptic Rendering of Compliant Shapes; IEEE Transactions on Robotics; 2015; 31; 4; 893-905

[57/204]: Donner, Philine; Christange, Franz; Buss, Martin; Fundamental dynamics based adaptive energy control for cooperative swinging of complex pendulum-like objects; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[58/204]: Kiani Bejestani, Arman; Wholesale Energy Market in a Smart Grid: Dynamic modeling, stability, and robustness; 2013; Dissertation; 166 Seiten
[59/204]: D. Maity and J. S. Baras; Dynamic, optimal sensor scheduling and value of information; 239-244; 18th International Conference on Information Fusion (FUSION); 2015

[60/204]: X. Liu, H. He, and J. S. Baras; Crowdsourcing with multi-dimensional trust; 2015 18th International Conference on Information Fusion (FUSION); 2015

[61/204]: Y. Zhou, D. Maity, and J. S. Baras; Optimal mission planner with timed temporal logic constraints; 759-764; 14th European Control Conference; 2015

[62/204]: Shi, Guodong; Proutiere, Alexandre; Johansson, Mikael; Baras, John S.; Johansson, Karl H.; The Evolution of Beliefs over Signed Social Networks; Operations Research; 2016; 64; 3; 585-604

[63/204]: Matei, Ion; Somarakis, Christoforos; Baras, John S.; A Generalized Gossip Algorithm on Convex Metric Spaces; IEEE Transactions on Automatic Control; 2015; 60; 5; 1175-1187

[64/204]: Matei, Ion; Baras, John S.; The Asymptotic Consensus Problem on Convex Metric Spaces; IEEE Transactions on Automatic Control; 2015; 60; 4; 907-921

[65/204]: Soleymani, Touraj; Hirche, Sandra; Baras, John S.; Optimal self-driven sampling for estimation based on value of information; 2016 13th International Workshop on Discrete Event Systems (WODES); IEEE; 2016

[66/204]: Deroo, Frederik; Meinel, Martin; Ulbrich, Michael; Hirche, Sandra; Distributed Stability Tests for Large-Scale Systems With Limited Model Information; IEEE Transactions on Control of Network Systems; 2015; 2; 3; 298-309

[67/204]: Shi, Guodong; Proutiere, Alexandre; Johansson, Mikael; Baras, John S.; Johansson, Karl Henrik; Emergent Behaviors Over Signed Random Dynamical Networks: State-Flipping Model; IEEE Transactions on Control of Network Systems; 2015; 2; 2; 142-153

[68/204]: Zhou, Yuchen; Baras, John S.; Reachable set approach to collision avoidance for UAVs; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[69/204]: Mamduhi, Mohammad H.; Deroo, Frederik; Hirche, Sandra; Event-based data scheduling for a class of interconnected networked control systems; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[70/204]: Soleymani, Touraj; Hirche, Sandra; Baras, John S.; Optimal stationary self-triggered sampling for estimation; 2016 IEEE 55th Conference on Decision and Control (CDC); IEEE; 2016

[71/204]: Liu, Xiangyang; Baras, John S.; Trust-aware crowdsourcing with domain knowledge; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[72/204]: Maity, Dipankar; Baras, John S.; Event based control of stochastic linear systems; 2015 International Conference on Event-based Control, Communication, and Signal Processing (EBCCSP); IEEE; 2015

[73/204]: Maity, Dipankar; Baras, John S.; Event based control for control affine nonlinear systems: A Lyapunov function based approach; 2015 54th IEEE Conference on Decision and Control (CDC); IEEE; 2015

[74/204]: Soleymani, Touraj; Hirche, Sandra; Baras, John S.; Maximization of information in energy-limited directed communication; 2016 European Control Conference (ECC); IEEE; 2016

[75/204]: Liu, Xiangyang; He, He; Baras, John S.; Trust-aware optimal crowdsourcing with budget constraint; 2015 IEEE International Conference on Communications (ICC); IEEE; 2015

[76/204]: Maity, Dipankar; Baras, John S.; Motion planning in dynamic environments with bounded time temporal logic specifications; 2015 23rd Mediterranean Conference on Control and Automation (MED); IEEE; 2015

[77/204]: Mamduhi, Mohammad H.; Tolic, Domagoj; Hirche, Sandra; Decentralized event-based scheduling for shared-resource Networked Control Systems; 2015 European Control Conference (ECC); IEEE; 2015

[78/204]: Mamduhi, Mohammad H.; Tolic, Domagoj; Hirche, Sandra; Robust event-based data scheduling for resource constrained Networked Control Systems; 2015 American Control Conference (ACC); IEEE; 2015

[79/204]: Soleymani, Touraj; Hirche, Sandra; Baras, John S.; Optimal Information Control in Cyber-Physical Systems; IFAC-PapersOnLine; 2016; 49; 22; 1-6

[80/204]: Soleymani, Touraj; Hirche, Sandra; Baras, John S.; Event-triggered output-feedback H∞ control with minimum directed information; 2017 IEEE 56th Annual Conference on Decision and Control (CDC); IEEE; 2017
[81/204]: Soleymani, Touraj; Hirche, Sandra; Baras, John S.; Maximization of information in energy-limited directed communication; 2016 European Control Conference (ECC); Institute of Electrical and Electronics Engineers (IEEE); 2016

[82/204]: Yuchen Zhou; Maity, Dipankar; Baras, John S.; Optimal mission planner with timed temporal logic constraints; 2015 European Control Conference (ECC); Institute of Electrical and Electronics Engineers (IEEE); 2015

Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics > Alumni Focus Groups > Focus Group: Aircraft Stability and Control

[83/204]: Schuck, Falko; Heller, Matthias; Baier, Thaddäus; Holzapfel, Florian; Longitudinal Robust Controller for Excellent Handling Qualities Design of a General Aviation Aircraft using QFT; AIAA Guidance, Navigation, and Control (GNC) Conference; American Institute of Aeronautics and Astronautics; 2013

[84/204]: Heller, Matthias; Baier, Thaddäus; Schuck, Falko; Lateral Fly by Wire Control System Dedicated to Future Small Aircraft; Advances in Aerospace Guidance, Navigation and Control; Springer Berlin Heidelberg; 2013

[85/204]: Zhang, Fubiao; Holzapfel, Florian; Heller, Matthias; Nonlinear Non-cascaded Reference Model Architecture for Flight Control Design; Advances in Aerospace Guidance, Navigation and Control; Springer Berlin Heidelberg; 2013

[86/204]: Mühlegg, Maximilian; Dauer, Johann C.; Dittrich, Jörg; Holzapfel, Florian; Adaptive Trajectory Controller for Generic Fixed-Wing Unmanned Aircraft; Advances in Aerospace Guidance, Navigation and Control; Springer Berlin Heidelberg; 2013

Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics > Alumni Focus Groups > Focus Group: Cognitive Technology

[87/204]: Reisinger, W. Zhou, A. Peer, and S. Hirche; Interaction-based dynamic measurement of haptic characteristics of automotive control elements; Eurohaptics 2014; 2014

[88/204]: Bätz, Georg; Weber, Bernhard; Scheint, Michael; Wollherr, Dirk; Buss, Martin; Dynamic contact force/torque observer: Sensor fusion for improved interaction control; The International Journal of Robotics Research; 2013; 32; 4; 446-457

[89/204]: Jenke, Robert; Peer, Angelika; Buss, Martin; Feature Extraction and Selection for Emotion Recognition from EEG; IEEE Transactions on Affective Computing; 2014; 5; 3; 327-339

[90/204]: Saveriano, Matteo; Dongheui Lee; Invariant representation for user independent motion recognition; 2013 IEEE RO-MAN; IEEE; 2013

[91/204]: Ergin, Mehmet Alper; Peer, Angelika; Development of a new 6 DOF parallel haptic interface for the rendering of elements and interior equipment in a car; 2013 IEEE RO-MAN; IEEE; 2013

[92/204]: Magnanimo, Vito; Saveriano, Matteo; Rossi, Silvia; Lee, Dongheui; A Bayesian approach for task recognition and future human activity prediction; The 23rd IEEE International Symposium on Robot and Human Interactive Communication; IEEE; 2014

[93/204]: Klare, S.; Forssilow, D.; Peer, A.; Formable object &x2014; A new haptic interface for shape rendering; 2013 World Haptics Conference (WHC); IEEE; 2013

[94/204]: Saveriano, Matteo; Lee, Dongheui; Safe motion generation and online reshaping using dynamical systems; 2014 11th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI); IEEE; 2014

[95/204]: Saveriano, Matteo; Lee, Dongheui; Learning motion and impedance behaviors from human demonstrations; 2014 11th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI); IEEE; 2014

[96/204]: Passenberg, Carolina; Glaser, Antonia; Peer, Angelika; Exploring the Design Space of Haptic Assistants: The Assistance Policy Module; IEEE Transactions on Haptics; 2013; 6; 4; 440-452

[97/204]: Klare, Stefan; Peer, Angelika; The Formable Object: A 24-Degree-of-Freedom Shape-Rendering Interface; IEEE/ASME Transactions on Mechatronics; 2015; 20; 3; 1360-1371

[98/204]: Klare, Stefan; Peer, Angelika; Haptic Rendering of Compliant Shapes; IEEE Transactions on Robotics; 2015; 31; 4; 893-905
[99/204]: Stefanov, N.; Passenberg, C.; Peer, A.; Buss, M.; Design and Evaluation of a Haptic Computer-Assistant for Telemanipulation Tasks; IEEE Transactions on Human-Machine Systems; 2013; 43; 4; 385-397

[100/204]: Koropouli, Vasiliki; Gusrialdi, Azwirman; Lee, Dongheui; ESC-MRAC of MIMO systems for constrained robotic motion tasks in deformable environments; 2014 European Control Conference (ECC); IEEE; 2014

[101/204]: Geravand, Milad; Korondi, Peter Zeno; Peer, Angelika; Human sit-to-stand transfer modeling for optimal control of assistive robots; 5th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics; IEEE; 2014

[102/204]: Geravand, Milad; Peer, Angelika; Safety constrained motion control of mobility assistive robots; 5th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics; IEEE; 2014

[103/204]: Carton, Daniel; Turnwald, Annemarie; Olszowy, Wiktor; Buss, Martin; Wollherr, Dirk; Using penalized spline regression to calculate mean trajectories including confidence intervals of human motion data; 2014 IEEE International Workshop on Advanced Robotics and its Social Impacts; IEEE; 2014

[104/204]: Ergin, Mehmet Alper; Kuhne, Markus; Thielerscher, Axel; Peer, Angelika; Design of a new MR-compatible haptic interface with six actuated degrees of freedom; 5th IEEE RAS/EMBS International Conference on Biomedical Robotics and Biomechatronics; IEEE; 2014

[105/204]: Koropouli, Vasiliki; Gusrialdi, Azwirman; Lee, Dongheui; An adaptive dynamic inversion-extremum seeking control approach for constrained robotic motion tasks; 2015 European Control Conference (ECC); IEEE; 2015

[106/204]: Lou, Lei; Kuhnlenz, Kolja; Robust scale-invariant feature extraction; 2014 13th International Conference on Control Automation Robotics & Vision (ICARCV); IEEE; 2014

[107/204]: Klare, Stefan; Peer, Angelika; Inverse kinematics for shape rendering interfaces; 2013 IEEE International Conference on Robotics and Automation; IEEE; 2013

[108/204]: Lou, Lei; Kuhnlenz, Kolja; Hardware-in-the-loop development and real-time testing for precision motion control under RTAI; 2014 13th International Conference on Control Automation Robotics & Vision (ICARCV); IEEE; 2014

[109/204]: Koo, Seongyong; Lee, Dongheui; Kwon, Dong-Soo; GMM-based 3D object representation and robust tracking in unconstructed dynamic environments; 2013 IEEE International Conference on Robotics and Automation; IEEE; 2013

[110/204]: Jenke, Robert; Peer, Angelika; Buss, Martin; Effect-size-based electrode and feature selection for emotion recognition from EEG; 2013 IEEE International Conference on Acoustics, Speech and Signal Processing; IEEE; 2013

[111/204]: Saveriano, Matteo; Dongheui Lee; Point cloud based dynamical system modulation for reactive avoidance of convex and concave obstacles; 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems; IEEE; 2013

[112/204]: Seongyong Koo; Dongheui Lee; Dong-Soo Kwon; Multiple object tracking using an RGB-D camera by hierarchical spatiotemporal data association; 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems; IEEE; 2013

[113/204]: Soloperto, Raffaele; Saveriano, Matteo; Lee, Dongheui; A bidirectional invariant representation of motion for gesture recognition and reproduction; 2015 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2015

[114/204]: An, Sang-ik; Lee, Dongheui; Prioritized inverse kinematics using QR and cholesky decompositions; 2014 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2014

[115/204]: Ott, Christian; Henze, Bernd; Dongheui Lee; Kinesthetic teaching of humanoid motion based on whole-body compliance control with interaction-aware balancing; 2013 IEEE/RSJ International Conference on Intelligent Robots and Systems; IEEE; 2013

[116/204]: Corredor, Javier; Sofrony, Jorge; Peer, Angelika; Deciding on optimal assistance policies in haptic shared control tasks; 2014 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2014

[117/204]: Hu, Kai; Ott, Christian; Lee, Dongheui; Online human walking imitation in task and joint space based on quadratic programming; 2014 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2014
[118/204]: Koo, Seongyong; Lee, Dongheui; Kwon, Dong-Soo; Unsupervised object individuation from RGB-D image sequences; 2014 IEEE/RSJ International Conference on Intelligent Robots and Systems; IEEE; 2014

[119/204]: Saveriano, Matteo; Lee, Dongheui; Distance based dynamical system modulation for reactive avoidance of moving obstacles; 2014 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2014

[120/204]: Roberta L. Klatzky ; Dianne Pawluk ; Angelika Peer; Haptic Perception of Material Properties and Implications for Applications; Proceedings of the IEEE; 2013; PP; 99; 1-12

[121/204]: Liu, Ziyuan; Chen, Dong; Wurm, Kai M.; von Wichert, Georg; Using rule-based context knowledge to model table-top scenes; 2014 IEEE International Conference on Robotics and Automation (ICRA); IEEE; 2014

[122/204]: Jenke, Robert; Peer, Angelika; Buss, Martin; A Comparison of Evaluation Measures for Emotion Recognition in Dimensional Space; 2013 Humaine Association Conference on Affective Computing and Intelligent Interaction; IEEE; 2013

[123/204]: Lee, Dongheui; Nakamura, Yoshihiko; Motion recognition and recovery from occluded monocular observations; Robotics and Autonomous Systems; 2014; 62; 6; 818-832

[124/204]: Liu, Ziyuan; Chen, Dong; Wurm, Kai M.; von Wichert, Georg; Table-top scene analysis using knowledge-supervised MCMC; Robotics and Computer-Integrated Manufacturing; 2015; 33; 110-123

[125/204]: Koo, Seongyong; Lee, Dongheui; Kwon, Dong-Soo; Incremental object learning and robust tracking of multiple objects from RGB-D point set data; Journal of Visual Communication and Image Representation; 2014; 25; 1; 108-121

[126/204]: Kühnlenz, Barbara; Sosnowski, Stefan; Buß, Malte; Wollherr, Dirk; Kühnlenz, Kolja; Buss, Martin; Increasing Helpfulness towards a Robot by Emotional Adaption to the User; International Journal of Social Robotics; 2013; 5; 4; 457-476

[127/204]: Khan, Sheraz; Dometios, Athanasios; Verginis, Chris; Tzafestas, Costas; Wollherr, Dirk; Buss, Martin; RMAP: a rectangular cuboid approximation framework for 3D environment mapping; Autonomous Robots; 2014; 37; 3; 261-277

[128/204]: Friedl, Ken E.; Qin, Yao; Ostler, Daniel; Peer, Angelika; Modeling the Weber Fraction of Vibrotactile Amplitudes Using Gain Control Through Global Feedforward Inhibition; Haptics: Neuroscience, Devices, Modeling, and Applications; Springer Berlin Heidelberg; 2014

[129/204]: Barbara Gonsior, Christian Landsiedel, Nicole Mirnig, Stefan Sosnowski, Ewald Strasser, Jakub Zlotowski Martin Buss, Kolja Kühnlenz, Manfred Tschecheli, Astrid Weiss, Dirk Wollherr; Impacts of Multimodal Feedback on Efficiency of Proactive Information Retrieval from Task-Related HRI; JACIII; 2012; 16; 2; 313-326

[130/204]: Hu, K.; Ott, Ch.; Lee, D.; Online Iterative Learning Control of Zero-Moment Point for Biped Walking Stabilization; Proceedings of the IEEE International Conference on Robotics and Automation (ICRA); 2015

[131/204]: An, S.; Lee, D.; Prioritized Inverse Kinematics with Multiple Task Definitions; Proceedings of the IEEE International Conference on Robotics and Automation (ICRA); 2015

[132/204]: Karg, Michael; Representation, Acquisition and Use of Expectations for Domestic Service Robots; 2014; Dissertation; 189 Seiten

[133/204]: Lichtenthäler, Christina; Legibility of Robot Behavior; 2014; Dissertation; 127 Seiten

[134/204]: Saveriano, Matteo; Lee, Dongheui; Invariant Representation for User Independent Motion Recognition; 650-655; Proceedings of the IEEE International Symposium on Robot and Human Interactive Communication (Ro-Man); 2013


[136/204]: Liu, Ziyuan; Probabilistic Cognition for Autonomous Systems: Abstraction, Semantics and Knowledge; 2014; Dissertation; 155 Seiten

[137/204]: Kühnlenz, Barbara Andrea; Alignment Strategies for Information Retrieval in Prosocial Human-Robot Interaction; 2013; Dissertation; 143 Seiten

Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics > Alumni Focus Groups > Focus Group: Diesel Reloaded
[138/204]: L. Mercep, G. Spiegelberg, and A. Knoll; Die Entwicklung einer zentralisierten Mensch-Maschine Schnittstelle im Rahmen des Projekts Innotruck; Automotive meets Electronics; VDE/VDI Gesellschaft Mikroelektronik Mikrosystem- und Feinwerktechnik; 2013
[139/204]: Ljubo Mercep and Florian Hockel; Mensch-Maschine-Interaktion mittels Ambiente-Beleuchtung im Innotruck; 3. Elektronic Lighting Congress; 2013
[140/204]: L. Mercep, G. Spiegelberg, and A. Knoll; A robust driver assessment method for the brain-computer interface; IADIS Interfaces and Human-Computer Interaction 2013; 2013
[141/204]: C. Buitkamp, G. Spiegelberg, and M. Lienkamp; Reducing costs during development and operation of hybrid commercial vehicles through a market-based electric energy management; 347-362; Elektrik/ Elektronik in Hybrid- und Elektrofahrzeugen und elektrisches Energiemanagement; U. Brill; expert verlag; 2013
[142/204]: Ljubo Mercep ; Gernot Spiegelberg ; Alois Knoll and Jakob Stoeck; Interface Concepts for Communicating Green Cyber-Physical Systems to Public; Proceedings of the 2nd International Conference on Smart Grids and Green IT Systems; SciTePress - Science and and Technology Publications; 2013
[143/204]: Mercep, Ljubo; Spiegelberg, Gernot; Knoll, Alois; Reducing the impact of vibration-caused artifacts in a brain-computer interface using gyroscope data; Eurocon 2013; IEEE; 2013
[144/204]: Stahle, Hauke; Mercep, Ljubo; Knoll, Alois; Spiegelberg, Gernot; Towards the deployment of a centralized ICT architecture in the automotive domain; 2013 2nd Mediterranean Conference on Embedded Computing (MECO); IEEE; 2013
[145/204]: Mercep, Ljubo; Spiegelberg, Gernot; Knoll, Alois; A case study on implementing future human-machine interfaces; 2013 IEEE Intelligent Vehicles Symposium (IV); IEEE; 2013
[146/204]: Mercep, L.; Buitkamp, C.; Stähle, H.; Spiegelberg, G.; Knoll, A.; Lienkamp, M.; The Innotruck Case Study on A Holistic Approach to Electric Mobility; Sustainable Automotive Technologies 2013; Springer International Publishing; 2013
[147/204]: Mercep, Ljubo; Spiegelberg, Gernot; Knoll, Alois; Context Processing for Automotive Human-Machine Interfaces; IEEE Science and Information Conference; 2013
[148/204]: Mercep, Ljubo; Spiegelberg, Gernot; Knoll, Alois; Human Performance Profiling while Driving a Sidestick-Controlled Car; European Data Processing Conference 2013; 2013
[149/204]: Mercep, Ljubo; Spiegelberg, Gernot; Knoll, Alois; An Approach for Embedding the Vehicle inside the Web-of-Things; International Scientific Conference on Mobility and Transport Mobil.TUM 2013; 2013

Forschungszentren > Institute for Advanced Study (IAS) > Research Areas > Research Area: Control Theory, Systems Engineering and Robotics > Alumni Focus Groups > Focus Group: Networked Dynamical Systems

[154/204]: Obradovic, D.; Precise clock synchronisation for industrial and other networked applications; LCCC workshop on Information and Control in Networks; 2012
[157/204]: Voit, Harald; An Arbitrated Networked Control Systems Approach to Cyber-Physical Systems; 2013; Dissertation; 141 Seiten
[158/204]: D. Loebl and F. Holzapfel, Closed-loop simulation analysis of automated control of aircraft in formation flight, Deutscher Luft- und Raumfahrtkongress, 2014

[159/204]: J. Wang, D. Loebl, and F. Holzapfel, Kinematic modeling and control design for an aerial refueling task, RAEs Applied Aerodynamics Conference, 2014

[160/204]: L. Höhndorf, J. Sembiring, and F. Holzapfel, Copulas applied to flight data analysis, PSAM 12: Probabilistic Safety Assessment and Management, 2014


[162/204]: Tekin, Raziye; Erer, Koray S.; Holzapfel, Florian, Control of Impact Time with Increased Robustness via Feedback Linearization, Journal of Guidance, Control, and Dynamics, 2016, 39, 7, 1682-1689


[165/204]: Siddarth, Anshu; Peter, Florian; Holzapfel, Florian; Valasek, John, Autopilot for a Nonlinear Non-Minimum Phase Tail-Controlled Missile, AIAA Guidance, Navigation, and Control Conference, American Institute of Aeronautics and Astronautics, 2014

[166/204]: Schilling, Klaus, Networked Control of Cooperating Distributed Pico-Satellites, IFAC Proceedings Volumes, 2014, 47, 3, 7960-7964


[172/204]: Richter, Maximilian; Hochstrasser, Markus; Walter, Leif; Bittner, Matthias; Holzapfel, Florian, Application of MINLP Techniques to Conflict Resolution of Multiple Aircraft, AIAA Guidance, Navigation, and Control Conference, American Institute of Aeronautics and Astronautics, 2014


[175/204]: Cichella, Venanzio; Choe, Ronald; Mehdi, Bilal S.; Xargay, Enric; Hovakimyan, Naira; Trujillo, Anna C.; Kaminer, Isaac, Trajectory Generation and Collision Avoidance for Safe Operation of Cooperating UAVs, AIAA Guidance, Navigation, and Control Conference, American Institute of Aeronautics and Astronautics, 2014

[176/204]: Zwigrlmaier, K; Drees, L; Holzapfel, F; Straub, D, Reliability analysis for Runway Overrun using subset simulation, Safety and Reliability: Methodology and Applications, CRC Press, 2014
[177/204]: Falconi, Guillermo P.; Angelov, Jorg; Holzapfel, Florian, Hexacopter outdoor flight test results using adaptive control allocation subject to an unknown complete loss of one propeller, 2016 3rd Conference on Control and Fault-Tolerant Systems (Systol), IEEE, 2016


[179/204]: Bhattacharya, Sourabh; Basar, Tamer; Hokvamikyan, Naira, On the construction of barrier in a visibility based pursuit evasion game, 2014 European Control Conference (ECC), IEEE, 2014

[180/204]: Kugler, Martin E.; Holzapfel, Florian, Designing a safe and robust automatic take-off maneuver for a fixed-wing UAV, 2016 14th International Conference on Control, Automation, Robotics and Vision (ICARCV), IEEE, 2016

[181/204]: Schneider, Volker; Piprek, Patrick; Schatz, Simon P.; Baier, Thaddaus; Dorhofer, Christoph; Hochstrasser, Markus; Gabrys, Agnes; Karlsson, Erik; Krause, Christoph; Lauffs, Patrick J.; Mumm, Nils C.; Nurnberger, Kajetan; Peter, Lars; Spiegel, Philipp; Steinert, Lukas; Zollitsch, Alexander; Holzapfel, Florian, Online trajectory generation using clothoid segments, 2016 14th International Conference on Control, Automation, Robotics and Vision (ICARCV), IEEE, 2016

[182/204]: Krause, Christoph; Holzapfel, Florian, Designing a system automation for a novel UAV demonstrator, 2016 14th International Conference on Control, Automation, Robotics and Vision (ICARCV), IEEE, 2016

[183/204]: Karlsson, Erik; Schatz, Simon P.; Baier, Thaddaus; Dorhofer, Christoph; Gabrys, Agnes; Hochstrasser, Markus; Krause, Christoph; Lauffs, Patrick J.; Mumm, Nils C.; Nurnberger, Kajetan; Peter, Lars; Schneider, Volker; Spiegel, Philipp; Steinert, Lukas; Zollitsch, Alexander W.; Holzapfel, Florian, Automatic flight path control of an experimental DA42 general aviation aircraft, 2016 14th International Conference on Control, Automation, Robotics and Vision (ICARCV), IEEE, 2016

[184/204]: Braun, Stanislav; Geiser, Markus; Heller, Matthias; Holzapfel, Florian, Configuration assessment and preliminary control law design for a novel diamond-shaped UAV, 2014 International Conference on Unmanned Aircraft Systems (ICUAS), IEEE, 2014

[185/204]: Falconi, Guillermo P.; Schatz, Simon P.; Holzapfel, Florian, Fault tolerant control of a hexarotor using a command governor augmentation, 2016 24th Mediterranean Conference on Control and Automation (MED), IEEE, 2016

[186/204]: Jonathan Lauffs, Patrick; Holzapfel, Florian, Hardware-in-the-loop platform for development of redundant smart actuators, Aircraft Engineering and Aerospace Technology, 2016, 88, 3, 358-364


[188/204]: Freimann, A.; Tzschichholz, T.; Schmidt, M.; Kleinschrodt, A.; Schilling, K., Applicability of delay tolerant networking to distributed satellite systems, CEAS Space Journal, 2016, 8, 4, 323-332


[193/204]: Seiferth, David; Kügler, Martin E.; Heller, Matthias, In-Flight Verification of a model-based designed Ground Controller for an innovative Unmanned Air Vehicle (UAV), 2018 Flight Testing Conference, American Institute of Aeronautics and Astronautics, 2018

[195/204]: Weiser, Christian; Ossmann, Daniel; Heller, Matthias, In-Flight Validation of a Robust Flight Controller Featuring Anti-Windup Compensation, 2018 Atmospheric Flight Mechanics Conference, American Institute of Aeronautics and Astronautics, 2018


[197/204]: Seiferth, David; Chowdhary, G.; Muhlegg, M.; Holzapfel, F., Online Gaussian Process regression with non-Gaussian likelihood, 2017 American Control Conference (ACC), IEEE, 2017

[198/204]: Kugler, Martin E.; Holzapfel, Florian, Autoland for a novel UAV as a state-machine-based extension to a modular automatic flight guidance and control system, 2017 American Control Conference (ACC), IEEE, 2017

[199/204]: Seiferth, David; Heller, Matthias; Holzapfel, Florian, Automatic safe area detection for novel unmanned air vehicle, 2018 4th International Conference on Control, Automation and Robotics (ICCAR), IEEE, 2018

[200/204]: Kugler, Martin E.; Seiferth, David; Heller, Matthias; Holzapfel, Florian, Real-time monitoring of flight tests with a novel fixed-wing UAV by automatic flight guidance and control system engineers, 2018 4th International Conference on Control, Automation and Robotics (ICCAR), IEEE, 2018

[201/204]: Seiferth, David; Kuchar, Richard; Heller, Matthias, Model-based design and real live on-runway testing of a ground controller for a novel diamond-shaped Unmanned Air Vehicle (UAV), 2017 IEEE 56th Annual Conference on Decision and Control (CDC), IEEE, 2017


[203/204]: Seiferth, David; Heller, Matthias, Testing and performance enhancement of a model-based designed ground controller for a diamond-shaped unmanned air vehicle (UAV), 2017 IEEE Conference on Control Technology and Applications (CCTA), IEEE, 2017

[204/204]: Krause, Christoph; Holzapfel, Florian, Development of a generic loiter automation for a fixed wing UAV/OPV, 2017 11th Asian Control Conference (ASCC), IEEE, 2017