# Rainer Palm

List of Publications by Year
in descending order

| | | 759233 | 713466 |
|---|---|---|---|
| 37 papers | 873 citations | 12 h-index | 21 g-index |
| 38 all docs | 38 docs citations | 38 times ranked | 507 citing authors |

| # | ARTICLE | IF | CITATIONS |
|---|---------|-----|-----------|
| 1 | Fuzzy Geometric Approach to Collision Estimation Under Gaussian Noise in Human-Robot Interaction. Studies in Computational Intelligence, 2021, , 191-221. | 0.9 | 0 |
| 2 | Bi-directional navigation intent communication using spatial augmented reality and eye-tracking glasses for improved safety in human–robot interaction. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101830. | 9.9 | 48 |
| 3 | Fuzzy-Based Parameter Optimization of Adaptive Unscented Kalman Filter: Methodology and Experimental Validation. IEEE Access, 2020, 8, 54887-54904. | 4.2 | 23 |
| 4 | Integral Non-Singular Terminal Sliding Mode Controller for nth-Order Nonlinear Systems. IEEE Access, 2019, 7, 102792-102802. | 4.2 | 17 |
| 5 | Gaussian noise and the intersection problem in Human-Robot Systems - analytical and fuzzy approach. , 2019, , . | | 0 |
| 6 | Fuzzy logic and control in Human-Robot Systems -geometrical and kinematic considerations. , 2018, , . | | 1 |
| 7 | Robust control by adaptive Non-singular Terminal Sliding Mode. Engineering Applications of Artificial Intelligence, 2017, 59, 205-217. | 8.1 | 70 |
| 8 | Recognition of human-robot motion intentions by trajectory observation. , 2016, , . | | 8 |
| 9 | Velocity potentials and fuzzy modeling of fluid streamlines for obstacle avoidance of mobile robots. , 2015, , . | | 4 |
| 10 | Programming-by-Demonstration and Adaptation of Robot Skills by Fuzzy Time Modeling. International Journal of Humanoid Robotics, 2014, 11, 1450009. | 1.1 | 3 |
| 11 | Programming-by-Demonstration and adaptation of robot skills by fuzzy-time-modeling. , 2011, , . | | 1 |
| 12 | Programming-by-Demonstration of reaching motions—A next-state-planner approach. Robotics and Autonomous Systems, 2010, 58, 607-621. | 5.1 | 23 |
| 13 | Programming-by-Demonstration of robot skills using fuzzy-time-modeling. , 2010, , . | | 0 |
| 14 | Learning and adaptation of robot skills using fuzzy models. , 2010, , . | | 0 |
| 15 | Grasp Recognition by Fuzzy Modeling andÂHidden Markov Models. Advanced Information and Knowledge Processing, 2010, , 25-47. | 0.3 | 1 |
| 16 | Programming-by-Demonstration of Robot Motions. Advanced Information and Knowledge Processing, 2010, , 1-23. | 0.3 | 0 |
| 17 | Recognition of human grasps by time-clustering and fuzzy modeling. Robotics and Autonomous Systems, 2009, 57, 484-495. | 5.1 | 32 |
| 18 | Segmentation and Recognition of Human Grasps for Programming-by-Demonstration using Time-clustering and Fuzzy Modeling. IEEE International Conference on Fuzzy Systems, 2007, , . | 0.0 | 9 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Programming by Demonstration of Pick-and-Place Tasks for Industrial Manipulators using Task Primitives. , 2007, , . | | 30 |
| 20 | Interpretation of human demonstrations using Mirror Neuron System principles. , 2007, , . | | 4 |
| 21 | Multiple-step-ahead prediction in control systems with Gaussian process models and TS-fuzzy models. Engineering Applications of Artificial Intelligence, 2007, 20, 1023-1035. | 8.1 | 27 |
| 22 | Open loop dynamic trajectory generator for a fuzzy gain scheduler. Engineering Applications of Artificial Intelligence, 2003, 16, 213-225. | 8.1 | 10 |
| 23 | Design of a fuzzy gain scheduler using sliding mode control principles. Fuzzy Sets and Systems, 2001, 121, 13-23. | 2.7 | 15 |
| 24 | Entwurf eines adaptiven robusten „Fuzzy sliding-mode"-Reglers, Teil 1 / Design of an Adaptive and Robust Fuzzy Sliding-mode Controller, Part 1. Automatisierungstechnik, 1999, 47, 549-555. | 0.8 | 1 |
| 25 | Improving the global performance of a fuzzy gain-scheduler by supervision. Engineering Applications of Artificial Intelligence, 1999, 12, 297-307. | 8.1 | 1 |
| 26 | Fuzzy Regelung. , 1999, , 302-334. | | 0 |
| 27 | Optimal Adjustment of Scaling for Fuzzy Controllers Using Correlation Techniques. , 1999, , 897-915. | | 0 |
| 28 | Model Based Fuzzy Control. , 1997, , . | | 153 |
| 29 | Improving the Global Performance of a Fuzzy Gain Scheduler by Supervision. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 509-514. | 0.4 | 2 |
| 30 | Direct Fuzzy Adaptation of a Fuzzy Controller. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1996, 29, 4989-4994. | 0.4 | 11 |
| 31 | Fuzzy system technologies at Siemens R & D. Fuzzy Sets and Systems, 1994, 63, 245-269. | 2.7 | 22 |
| 32 | Robust control by fuzzy sliding mode. Automatica, 1994, 30, 1429-1437. | 5.0 | 266 |
| 33 | Fuzzy research and applications at Siemens. Fuzzy Sets and Systems, 1994, 68, 361-362. | 2.7 | 0 |
| 34 | Input Scaling of Fuzzy Controllers. , 1994, , 29-45. | | 0 |
| 35 | Control of a redundant manipulator using fuzzy rules. Fuzzy Sets and Systems, 1992, 45, 279-298. | 2.7 | 32 |
| 36 | Fuzzy controller for a sensor guided robot manipulator. Fuzzy Sets and Systems, 1989, 31, 133-149. | 2.7 | 43 |

| # | ARTICLE | IF | CITATIONS |
|---|---------|----|-----------|
| 37 | ANNIE, a Tool for Integrating Ergonomics in the Design of Car Interiors. , 0, , . | | 14 |