Thierry Fraichard

List of Publications by Year
in descending order

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45 papers	1,495 citations	623734 14 h-index	752698 20 g-index
45 all docs	45 docs citations	45 times ranked	1108 citing authors

#	Article	IF	Citations
1	Inevitable collision states â€" a step towards safer robots?. Advanced Robotics, 2004, 18, 1001-1024.	1.8	292
2	Bayesian Occupancy Filtering for Multitarget Tracking: An Automotive Application. International Journal of Robotics Research, 2006, 25, 19-30.	8.5	170
3	Growing Hidden Markov Models: An Incremental Tool for Learning and Predicting Human and Vehicle Motion. International Journal of Robotics Research, 2009, 28, 1486-1506.	8.5	85
4	Incremental Learning of Statistical Motion Patterns With Growing Hidden Markov Models. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 403-416.	8.0	82
5	Fuzzy control to drive car-like vehicles. Robotics and Autonomous Systems, 2001, 34, 1-22.	5.1	81
6	A Short Paper about Motion Safety. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	81
7	Provably safe navigation for mobile robots with limited field-of-views in dynamic environments. Autonomous Robots, 2012, 32, 267-283.	4.8	71
8	Collision avoidance in dynamic environments: An ICS-based solution and its comparative evaluation. , 2009, , .		49
9	Inevitable Collision States: A probabilistic perspective. , 2010, , .		49
10	Trajectory planning in a dynamic workspace: a 'state-time space' approach. Advanced Robotics, 1999, 13, 75-94.	1.8	41
11	Towards urban driverless vehicles. International Journal of Vehicle Autonomous Systems, 2008, 6, 4.	0.2	38
12	An anthropomorphic navigation scheme for dynamic scenarios. , 2011, , .		38
13	Motion estimation from range images in dynamic outdoor scenes. , 2010, , .		35
14	Sensor-Based Control Architecture for a Car-Like Vehicle. Autonomous Robots, 1999, 6, 165-185.	4.8	34
15	Intentional motion on-line learning and prediction. Machine Vision and Applications, 2008, 19, 411-425.	2.7	33
16	Fusion between laser and stereo vision data for moving objects tracking in intersection like scenario. , 2011, , .		32
17	Integrating Perception and Planning for Autonomous Navigation of Urban Vehicles. , 2006, , .		30
18	An efficient and generic 2D Inevitable Collision State-checker. , 2008, , .		27

#	Article	IF	Citations
19	An Inevitable Collision State-Checker for a Car-Like Vehicle. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	24
20	From Crowd Simulation to Robot Navigation in Crowds. IEEE Robotics and Automation Letters, 2020, 5, 729-735.	5.1	19
21	Safe Vehicle Navigation in Dynamic Urban Scenarios. , 2008, , .		18
22	Guaranteeing motion safety for robots. Autonomous Robots, 2012, 32, 173-175.	4.8	18
23	Provably safe navigation for mobile robots with limited field-of-views in unknown dynamic environments. , 2012, , .		16
24	From path to trajectory deformation. , 2007, , .		15
25	Achievable safety of driverless ground vehicles. , 2008, , .		14
26	Geometric and Bayesian models for safe navigation in dynamic environments. Intelligent Service Robotics, 2008, 1, 51-72.	2.6	13
27	A Novel Self Organizing Network to Perform Fast Moving Object Extraction from Video Streams. , 2006, , .		9
28	Iterative Motion Planning and Safety Issue. , 2012, , 1433-1458.		9
29	A Real-Time Navigation Architecture for Automated Vehicles in Urban Environments. Intelligent Vehicles Symposium, 2009 IEEE, 2007, , .	0.0	8
30	Navigating dynamic environments using trajectory deformation. , 2008, , .		8
31	Relaxing the inevitable collision state concept to address provably safe mobile robot navigation with limited field-of-views in unknown dynamic environments. , 2011, , .		8
32	Reactive Trajectory Deformation to Navigate Dynamic Environments. , 2008, , 233-241.		7
33	Fast Object Extraction from Bayesian Occupancy Grids using Self Organizing Networks. , 2006, , .		6
34	Steps Towards Safe Navigation in Open and Dynamic Environments. , 2007, , 45-82.		6
35	Using Human Attention to Address Humanâ€“Robot Motion. IEEE Robotics and Automation Letters, 2019, 4, 2038-2045.	5.1	5
36	A REAL-TIME AUTONOMOUS NAVIGATION ARCHITECTURE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 385-390.	0.4	4

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37	Human-Robot Motion: An attention-based navigation approach. , 2014, , .		4
38	Viability-Based Guaranteed Safe Robot Navigation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 459-471.	3.4	4
39	Safe motion using viability kernels. , 2015, , .		3
40	Effect of Planning Period on MPC-based Navigation for a Biped Robot in a Crowd. , 2019, , .		3
41	Incremental Learning of Statistical Motion Patterns with Growing Hidden Markov Models. Springer Tracts in Advanced Robotics, 2010, , 75-86.	0.4	3
42	Intentional Motion Online Learning and Prediction. , 2006, , 305-316.		3
43	Tiji, a generic trajectory generation tool for motion planning and control. , 2010, , .		0
44	A Generic Architecture for Dynamic Outdoor Environment. , 2011, , .		0
45	An Architecture for Automated Driving in Urban Environments. Springer Tracts in Advanced Robotics, 2008, , 575-584.	0.4	0