Raja Chatila

List of Publications by Year
in descending order

26 papers	4,874 citations	759190 12 h-index	888047 17 g-index
26 all docs	26 docs citations	26 times ranked	3949 citing authors

#	Article	IF	Citations
1	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. Information Fusion, 2020, 58, 82-115.	19.1	3,332
2	AI4People—An Ethical Framework for a Good AI Society: Opportunities, Risks, Principles, and Recommendations. Minds and Machines, 2018, 28, 689-707.	4.8	957
3	SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports. Springer Tracts in Advanced Robotics, 2016, , 607-622.	0.4	157
4	Deliberation and reactivity in autonomous mobile robots. Robotics and Autonomous Systems, 1995, 16, 197-211.	5.1	62
5	Ethics by Design. , 2018, , .		48
6	The IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems [Standards]. IEEE Robotics and Automation Magazine, 2017, 24, 110-110.	2.0	47
7	Toward Self-Aware Robots. Frontiers in Robotics and AI, 2018, 5, 88.	3.2	35
8	The ExoMars rover and Pasteur payload Phase A study: an approach to experimental astrobiology. International Journal of Astrobiology, 2006, 5, 221-241.	1.6	34
9	Robots learning how and where to approach people. , 2016, , .		34
10	Designing a Value-Driven Future for Ethical Autonomous and Intelligent Systems. Proceedings of the IEEE, 2019, 107, 518-525.	21.3	30
11	Planetary exploration by a mobile robot: Mission teleprogramming and autonomous navigation. Autonomous Robots, 1995, 2, 333-344.	4.8	25
12	On autonomous navigation in a natural environment. Robotics and Autonomous Systems, 1995, 16, 5-16.	5.1	19
13	Unintended Consequences of Biased Robotic and Artificial Intelligence Systems [Ethical, Legal, and Societal Issues]. IEEE Robotics and Automation Magazine, 2019, 26, 11-13.	2.0	16
14	Design of a Control Architecture for Habit Learning in Robots. Lecture Notes in Computer Science, 2014, , 249-260.	1.3	15
15	Respective Advantages and Disadvantages of Model-based and Model-free Reinforcement Learning in a Robotics Neuro-inspired Cognitive Architecture. Procedia Computer Science, 2015, 71, 178-184.	2.0	13
16	Modeling the dynamics of individual behaviors for group detection in crowds using low-level features. , 2016, , .		8
17	Which criteria for autonomously shifting between goal-directed and habitual behaviors in robots?. , 2015, , .		7
18	How to Reduce Computation Time While Sparing Performance During Robot Navigation? A Neuro-Inspired Architecture for Autonomous Shifting Between Model-Based and Model-Free Learning. Lecture Notes in Computer Science, 2020, , 68-79.	1.3	7

#	Article	IF	Citations
19	Affordance Equivalences in Robotics: A Formalism. Frontiers in Neurorobotics, 2018, 12, 26.	2.8	6
20	Qualitative evaluation of computer vision algorithms in polar terrains. Robotics and Autonomous Systems, 2002, 40, 139-149.	5.1	5
21	Discovering affordances through perception and manipulation. , 2016, , .		5
22	Coping with the variability in humans reward during simulated human-robot interactions through the coordination of multiple learning strategies. , 2020, , .		5
23	Mimicking human push-recovery strategy based on five-mass with angular momentum model. , 2016, , .		3
24	Experiments with Simultaneous Environment Mapping and Multi-target Tracking. , 2008, , 201-210.		3
25	Observable Formulation SLAM Implementation. Lecture Notes in Control and Information Sciences, 2009, , 339-348.	1.0	1
26	Towards Robot Companions. , 0, , 743-743.		0