Raja Chatila

List of Publications by Citations

25 papers	2,035 citations	12 h-index	26 g-index
26 ext. papers	3,301 ext. citations	3.7 avg, IF	5.13 L-index

#	Paper	IF	Citations
25	Explainable Artificial Intelligence (XAI): Concepts, taxonomies, opportunities and challenges toward responsible AI. *Information Fusion*, **2020**, 58, 82-115	16.7	1210
24	AI4People-An Ethical Framework for a Good AI Society: Opportunities, Risks, Principles, and Recommendations. *Minds and Machines*, **2018**, 28, 689-707	4.9	454
23	SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports. *Springer Tracts in Advanced Robotics*, **2016**, 607-622	0.5	93
22	Deliberation and reactivity in autonomous mobile robots. *Robotics and Autonomous Systems*, **1995**, 16, 197-211	3.5	48
21	The ExoMars rover and Pasteur payload Phase A study: an approach to experimental astrobiology. *International Journal of Astrobiology*, **2006**, 5, 221-241	1.4	28
20	The IEEE Global Initiative for Ethical Considerations in Artificial Intelligence and Autonomous Systems [Standards]. *IEEE Robotics and Automation Magazine*, **2017**, 24, 110-110	3.4	27
19	Robots learning how and where to approach people **2016**,		25
18	Ethics by Design **2018**,		23
17	Planetary exploration by a mobile robot: Mission teleprogramming and autonomous navigation. *Autonomous Robots*, **1995**, 2, 333-344	3	22
16	Toward Self-Aware Robots. *Frontiers in Robotics and AI*, **2018**, 5, 88	2.8	21
15	Designing a Value-Driven Future for Ethical Autonomous and Intelligent Systems. *Proceedings of the IEEE*, **2019**, 107, 518-525	14.3	17
14	On autonomous navigation in a natural environment. *Robotics and Autonomous Systems*, **1995**, 16, 5-16	3.5	13
13	Design of a Control Architecture for Habit Learning in Robots. *Lecture Notes in Computer Science*, **2014**, 249-260	0.9	10
12	Unintended Consequences of Biased Robotic and Artificial Intelligence Systems [Ethical, Legal, and Societal Issues]. *IEEE Robotics and Automation Magazine*, **2019**, 26, 11-13	3.4	7
11	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	1.6	7
10	**2015**,		5
9	Modeling the dynamics of individual behaviors for group detection in crowds using low-level features **2016**,		5

List of Publications

8	Affordance Equivalences in Robotics: A Formalism. *Frontiers in Neurorobotics*, **2018**, 12, 26	3.4	4
7	Coping with the variability in humans reward during simulated human-robot interactions through the coordination of multiple learning strategies* **2020**,		3
6	Qualitative evaluation of computer vision algorithms in polar terrains. *Robotics and Autonomous Systems*, **2002**, 40, 139-149	3.5	3
5	Discovering affordances through perception and manipulation **2016**,		3
4	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	0.9	2
3	Experiments with Simultaneous Environment Mapping and Multi-target Tracking **2008**, 201-210		2
2	Mimicking human push-recovery strategy based on five-mass with angular momentum model **2016**,		2
1	Observable Formulation SLAM Implementation. *Lecture Notes in Control and Information Sciences*, **2009**, 339-348	0.5	1