Rachid Alami

List of Publications by Year
in descending order

169 papers	5,513 citations	361413 20 h-index	206112 48 g-index
172 all docs	172 docs citations	172 times ranked	3170 citing authors

#	Article	IF	Citations
1	Human-aware robot navigation: A survey. Robotics and Autonomous Systems, 2013, 61, 1726-1743.	5.1	523
2	A Human Aware Mobile Robot Motion Planner. , 2007, 23, 874-883.		365
3	An Architecture for Autonomy. International Journal of Robotics Research, 1998, 17, 315-337.	8.5	357
4	Artificial cognition for social human–robot interaction: An implementation. Artificial Intelligence, 2017, 247, 45-69.	5.8	239
5	Multi-robot cooperation in the MARTHA project. IEEE Robotics and Automation Magazine, 1998, 5, 36-47.	2.0	180
6	A Hybrid Approach to Intricate Motion, Manipulation and Task Planning. International Journal of Robotics Research, 2009, 28, 104-126.	8.5	168
7	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
8	Safe and dependable physical human-robot interaction in anthropic domains: State of the art and challenges. , 2006, , .		150
9	M+: a scheme for multi-robot cooperation through negotiated task allocation and achievement. , 0, , .		139
10	A distributed tasks allocation scheme in multi-UAV context. , 2004, , .		121
11	A Human-Aware Manipulation Planner. IEEE Transactions on Robotics, 2012, 28, 1045-1057.	10.3	117
12	Synthesizing Robot Motions Adapted to Human Presence. International Journal of Social Robotics, 2010, 2, 329-343.	4.6	101
13	Physiological and subjective evaluation of a human–robot object hand-over task. Applied Ergonomics, 2011, 42, 785-791.	3.1	100
14	Multiple eyes in the skies - Architecture and perception issues in the comets unmanned air vehicles project. IEEE Robotics and Automation Magazine, 2005, 12, 46-57.	2.0	93
15	ORO, a knowledge management platform for cognitive architectures in robotics. , 2010, , .		91
16	An implemented theory of mind to improve human-robot shared plans execution. , 2016, , .		88
17	PRS: a high level supervision and control language for autonomous mobile robots. , 0, , .		77
18	Planning human-aware motions using a sampling-based costmap planner. , 2011, , .		75

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19	A methodological approach relating the classification of gesture to identification of human intent in the context of human-robot interaction. , 2005, , .		72
20	Towards a Platform-Independent Cooperative Human Robot Interaction System: III An Architecture for Learning and Executing Actions and Shared Plans. IEEE Transactions on Autonomous Mental Development, 2012, 4, 239-253.	1.6	71
21	Grounding the Interaction: Anchoring Situated Discourse in Everyday Human-Robot Interaction. International Journal of Social Robotics, 2012, 4, 181-199.	4.6	63
22	Navigation in the presence of humans. , 0, , .		57
23	Sharing effort in planning human-robot handover tasks. , 2012, , .		55
24	Multi-robot cooperation through incremental plan-merging. , 0, , .		54
25	Which one? Grounding the referent based on efficient human-robot interaction. , 2010, , .		54
26	A framework for endowing an interactive robot with reasoning capabilities about perspective-taking and belief management. , 2014, , .		49
27	Task planning and control for a multi-UAV system: architecture and algorithms. , 2005, , .		44
28	A framework towards a socially aware Mobile Robot motion in Human-Centered dynamic environment. , 2010, , .		44
29	Task planning for human-robot interaction. , 2005, , .		43
30	Pivoting based manipulation byÂaÂhumanoidÂrobot. Autonomous Robots, 2010, 28, 77-88.	4.8	42
31	aSyMov: A Planner That Deals with Intricate Symbolic and Geometric Problems. Springer Tracts in Advanced Robotics, 2005, , 100-110.	0.4	40
32	Safe proactive plans and their execution. Robotics and Autonomous Systems, 2006, 54, 244-255.	5.1	39
33	The MuMMER Project: Engaging Human-Robot Interaction in Real-World Public Spaces. Lecture Notes in Computer Science, 2016, , 753-763.	1.3	39
34	A numerical technique for planning motion strategies of a mobile robot in presence of uncertainty. , 0, , .		38
35	Spatial reasoning for human robot interaction. , 2007, , .		36
36	Toward Self-Aware Robots. Frontiers in Robotics and AI, 2018, 5, 88.	3.2	35

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37	Integrated planning and execution control of autonomous robot actions. , 0, , .		34
38	Rackham: An Interactive Robot-Guide. , 2006, , .		34
39	Robots learning how and where to approach people. , 2016, , .		34
40	Global nearness diagram navigation (GND). , 0, , .		31
41	Using human knowledge awareness to adapt collaborative plan generation, explanation and monitoring. , 2016, , .		31
42	Planning human centered robot activities. , 2007, , .		30
43	Mightability maps: A perceptual level decisional framework for co-operative and competitive human-robot interaction. , 2010, , .		30
44	SHARY: A Supervision System Adapted to Human-Robot Interaction. Springer Tracts in Advanced Robotics, 2009, , 229-238.	0.4	29
45	Towards a Task-Aware Proactive Sociable Robot Based on Multi-state Perspective-Taking. International Journal of Social Robotics, 2013, 5, 215-236.	4.6	29
46	Exploiting human cooperation in human-centered robot navigation. , 2010, , .		27
47	Evaluating directional cost models in navigation. , 2014, , .		27
48	Incremental topological modeling using local Voronoi-like graphs. , 0, , .		25
49	Situation assessment for human-robot interactive object manipulation. , 2011, , .		25
50	Towards planning Human-Robot Interactive manipulation tasks: Task dependent and human oriented autonomous selection of grasp and placement. , 2012, , .		24
51	Physical Human-Robot Interaction With a Tethered Aerial Vehicle: Application to a Force-Based Human Guiding Problem. IEEE Transactions on Robotics, 2021, 37, 723-734.	10.3	24
52	On Planning and Task Achievement Modalities for Human-Robot Collaboration. Springer Tracts in Advanced Robotics, 2016, , 293-306.	0.4	22
53	Key Elements for Human-Robot Joint Action. Studies in the Philosophy of Sociality, 2017, , 159-177.	0.3	22
54	On the influence of sensor capacities and environment dynamics onto collision-free motion plans. , 0, , .		21

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55	How to solve deadlock situations within the plan-merging paradigm for multi-robot cooperation. , 0, , .		20
56	An interface for interleaved symbolic-geometric planning and backtracking. , 2013, , .		20
57	Toward a better understanding of the communication cues involved in a human-robot object transfer. , 2015, , .		20
58	Assessing the social criteria for human-robot collaborative navigation: A comparison of human-aware navigation planners. , 2017, , .		20
59	Viewing Robot Navigation in Human Environment as a Cooperative Activity. Springer Proceedings in Advanced Robotics, 2020, , 285-300.	1.3	20
60	Human-Aware Navigation Planner for Diverse Human-Robot Interaction Contexts. , 2021, , .		20
61	Whole-body motion planning for pivoting based manipulation by humanoids. , 2008, , .		19
62	Combining symbolic and geometric planning to synthesize human-aware plans: toward more efficient combined search. , 2015, , .		18
63	Representation and propagation of positioning uncertainties through manipulation robot programs-integration into a task-level programming system. , 0, , .		17
64	Planning robust motion strategies for a mobile robot. , 0, , .		17
65	Implementing a Human-Aware Robot System. , 2006, , .		17
66	A mobile robot that performs human acceptable motions. , 2006, , .		17
67	Supervision and motion planning for a mobile manipulator interacting with humans. , 2008, , .		17
68	Plan-Based Control of Joint Human-Robot Activities. KI - Kunstliche Intelligenz, 2010, 24, 223-231.	3.2	17
69	Incremental mission allocation to a large team of robots. , 0, , .		16
70	A Grasp Planner Based On Inertial Properties. , 0, , .		16
71	Towards shared attention through geometric reasoning for Human Robot Interaction. , 2009, , .		16
72	Human-robot interaction in the MORSE simulator. , 2012, , .		16

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73	Roboscopie. , 2012, , .		16
74	Phytochemical and pharmacological variability in Golden Thistle functional parts: comparative study of roots, stems, leaves and flowers. Natural Product Research, 2017, 31, 2669-2674.	1.8	16
75	A Plan Manager for Multi-robot Systems. International Journal of Robotics Research, 2009, 28, 220-240.	8.5	15
76	A Task Planner for an Autonomous Social Robot. , 2009, , 335-344.		15
77	Programming of flexible assembly cell: Task modelling and system integration. , 0, , .		14
78	A paradigm for plan-merging and its use for multi-robot cooperation. , 0, , .		14
79	A study of interaction between dialog and decision for human-robot collaborative task achievement. , 2007, , .		14
80	Planning agile motions for quadrotors in constrained environments. , 2014, , .		14
81	The HATP hierarchical planner: Formalisation and an initial study of its usability and practicality. , 2015, , .		14
82	Pharmacological and chemical properties of some marine echinoderms. Revista Brasileira De Farmacognosia, 2018, 28, 575-581.	1.4	14
83	Should a Robot Guide Like a Human? AÂQualitative Four-Phase Study of a Shopping Mall Robot. Lecture Notes in Computer Science, 2019, , 548-557.	1.3	14
84	About Decisions During Human-Robot Shared Plan Achievement: Who Should Act and How?. Lecture Notes in Computer Science, 2017, , 453-463.	1.3	13
85	Decision Making in Multi-UAVs Systems: Architecture and Algorithms. , 2007, , 15-48.		13
86	An architecture for dependable autonomous robots. , 0, , .		12
87	When the robot puts itself in your shoes. Managing and exploiting human and robot beliefs. , 2012, , .		12
88	Towards Human-Level Semantics Understanding of Human-Centered Object Manipulation Tasks for HRI: Reasoning About Effect, Ability, Effort and Perspective Taking. International Journal of Social Robotics, 2014, 6, 593-620.	4.6	12
89	Planning handovers involving humans and robots in constrained environment. , 2015, , .		12
90	Ontologenius: A long-term semantic memory for robotic agents. , 2019, , .		12

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91	NNS: A Lisp-based environment for the integration and operating of complex robotics systems. , 0, , .		11
92	Motion planning for a robot and a movable object amidst polygonal obstacles. , 0, , .		11
93	Planning and control for Unmanned Air Vehicle formation flight. , 2006, , .		11
94	Pivoting based manipulation by humanoids: a controllability analysis. , 2007, , .		11
95	Regrasp planning for pivoting manipulation by a humanoid robot. , 2009, , .		11
96	An Adaptive and Proactive Human-Aware Robot Guide. Lecture Notes in Computer Science, 2015, , 194-203.	1.3	11
97	Modulatory effect of Syzygium aromaticum and Pelargonium graveolens on oxidative and sodium nitroprusside stress and inflammation. Oriental Pharmacy and Experimental Medicine, 2019, 19, 201-210.	1.2	11
98	An extension of the plan-merging paradigm for multi-robot coordination. , 0, , .		10
99	Playing with several roadmaps to solve manipulation problems. , 0, , .		10
100	Towards multi-state visuo-spatial reasoning based proactive human-robot interaction. , 2011, , .		10
101	A new approach to combined symbolic-geometric backtracking in the context of human-robot interaction. , 2014, , .		10
102	UNDERWORLDS: Cascading Situation Assessment for Robots. , 2018, , .		10
103	Building topological models for navigation in large scale environments. , 0, , .		9
104	A decisional framework for autonomous robots interacting with humans. , 0, , .		9
105	Provably Safe Motions Strategies for Mobile Robots in Dynamic Domains. Springer Tracts in Advanced Robotics, 2007, , 85-106.	0.4	9
106	Geometric Tools for Perspective Taking for Human–Robot Interaction. , 2008, , .		9
107	Taskability Graph: Towards analyzing effort based agent-agent affordances. , 2012, , .		9
108	Affordance graph: A framework to encode perspective taking and effort based affordances for day-to-day human-robot interaction. , 2013, , .		9

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109	A Human-Robot Cooperative Navigation Planner. , 2017, , .		9
110	Plan-Based Multi-robot Cooperation. Lecture Notes in Computer Science, 2002, , 1-20.	1.3	9
111	Human Aware Task Planning Using Verbal Communication Feasibility andÂCosts. Lecture Notes in Computer Science, 2020, , 554-565.	1.3	9
112	Diligent: towards a human-friendly navigation system. , 0, , .		8
113	What are you talking about? Grounding dialogue in a perspective-aware robotic architecture. , 2011, , .		8
114	Towards a platform-independent cooperative human-robot interaction system: II. Perception, execution and imitation of goal directed actions. , 2011, , .		8
115	On human models for collaborative robots. , 2013, , .		8
116	Hardware and software architecture for execution control of an autonomous mobile robot. , 0, , .		7
117	Operating a large fleet of mobile robots using the plan-merging paradigm. , 0, , .		7
118	Formation flight: evaluation of autonomous configuration control algorithms. , 2007, , .		7
119	Towards a platform-independent cooperative human-robot interaction system: II. Perception, execution and imitation of goal directed actions. , 2011, , .		7
120	Enhancing sampling-based kinodynamic motion planning for quadrotors. , 2015, , .		7
121	Attentional supervision of human-robot collaborative plans. , 2016, , .		7
122	Efficient, Situated and Ontology based Referring Expression Generation for Human-Robot collaboration. , 2020, , .		7
123	A method for handling multiple roadmaps and its use for complex manipulation planning. , 0, , .		6
124	Simulation-based physics reasoning for consistent scene estimation in an HRI context. , 2019, , .		6
125	Toward a Robot Computing an Online Estimation of the Quality of its Interaction with its Human Partner. , 2020, , .		6
126	Semantic Spatial Representation: a unique representation of an environment based on an ontology for robotic applications. , 2019, , .		6

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127	A management of mutual belief for human-robot interaction. , 2007, , .		5
128	Explicit knowledge and the deliberative layer: Lessons learned. , 2013, , .		5
129	HATEB-2: Reactive Planning and Decision making in Human-Robot Co-navigation. , 2020, , .		5
130	Planning coordination and execution in multi-robots environment. , 0, , .		4
131	Supervision and interaction. , 0, , .		4
132	Evaluating the Pertinence of Robot Decisions in a Human-Robot Joint Action Context: The PeRDITA Questionnaire. , 2018, , .		4
133	Towards Robots able to Measure in Real-time the Quality of Interaction in HRI Contexts. International Journal of Social Robotics, 2022, 14, 713-731.	4.6	4
134	Users' Belief Awareness in Reinforcement Learning-Based Situated Human–Robot Dialogue Management. , 2015, , 73-86.		4
135	KHAOS: a Kinematic Human Aware Optimization-based System for Reactive Planning of Flying-Coworker. , 2022, , .		4
136	HATP/EHDA: A Robot Task Planner Anticipating and Eliciting Human Decisions and Actions. , 2022, , .		4
137	A Software component for simultaneous plan execution and adaptation. , 2007, , .		3
138	AUTONOMOUS CONFIGURATION CONTROL FOR UAV FORMATION FLIGHT IN HOSTILE ENVIRONMENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 451-456.	0.4	3
139	Developmental Social Robotics: An Applied Perspective. International Journal of Social Robotics, 2015, 7, 417-420.	4.6	3
140	A novel concept of Human-Robot competition for evaluating a robot's reasoning capabilities in HRI. , 2016, , .		3
141	Combining Assembly Planning and Geometric Task Planning. Springer Tracts in Advanced Robotics, 2019, , 299-316.	0.4	3
142	Reasoning on Shared Visual Perspective to Improve Route Directions. , 2019, , .		3
143	A Human-Aware Task Planner Explicitly Reasoning About Human and Robot Decision, Action and Reaction. , 2021, , .		3
144	Simulating Human-Robot Interactions for Dialogue Strategy Learning. Lecture Notes in Computer Science, 2014, , 62-73.	1.3	3

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145	A Plan Manager for Multi-robot Systems. Springer Tracts in Advanced Robotics, 2008, , 443-452.	0.4	3
146	Multi-robot cooperation through the common use of "mechanisms". , 0, , .		2
147	The analysis of repetitive sequencing at the workcell level: from workcell tasks to workcell cycles. International Journal of Production Research, 1990, 28, 1195-1213.	7.5	2
148	Task Level Programming And Robot Autonomy. , 0, , .		2
149	A fleet of autonomous and cooperative mobile robots. , 0, , .		2
150	Let's reduce the gap between task planning and motion planning. , 0, , .		2
151	Towards a sociable robot guide which respects and supports the human activity. , 2009, , .		2
152	Solving ambiguities with perspective taking. , 2010, , .		2
153	&#x201C;Talking to my robot&#x201D;: From knowledge grounding to dialogue processing. , 2013, , .		2
154	What Is It to Implement a Human-Robot Joint Action?. , 2021, , 229-238.		2
155	Solving ambiguities with perspective taking. , 2010, , .		2
156	An architecture for task interpretation and execution control for intervention robots: Preliminary experiments. , 1993, , 207-221.		1
157	Planning with non-deterministic events for enhanced robot autonomy. Robotics and Autonomous Systems, 1996, 18, 311-317.	5.1	1
158	A FRAMEWORK FOR SIMULTANEOUS PLAN EXECUTION AND ADAPTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 409-414.	0.4	1
159	Natural interaction for object hand-over. , 2013, , .		1
160	Online trajectory tracking based on model predictive control for Service Robot. , 2014, , .		1
161	Assessment of Chemical Risks in Moroccan Medical Biology Laboratories in Accordance with the CLP Regulation. Safety and Health at Work, 2020, 11, 193-198.	0.6	1
162	Ingredients and a Framework of Dexterous Manipulation Skills for Robots in Human Centered Environment and HRI. Journal of the Robotics Society of Japan, 2014, 32, 347-353.	0.1	1

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163	Mightability: A Multi-state Visuo-spatial Reasoning for Human-Robot Interaction. Springer Tracts in Advanced Robotics, 2014, , 49-63.	0.4	1
164	A Human-Robot Competition: Towards Evaluating Robots' Reasoning Abilities for HRI. Lecture Notes in Computer Science, 2016, , 138-147.	1.3	1
165	Design and Development of the First Prototype of a Social, Intelligent and Connected Help Desk. , 2019, , .		1
166	Extending Referring Expression Generation through shared knowledge about past Human-Robot collaborative activity. , 2021, , .		1
167	A DATA MODEL FOR MULTI-LEVEL PLANNING OF COMPLEX MANUFACTURING SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 13-17.	0.4	0
168	The Unexpected Daily Situations (UDS) Dataset. , 2020, , .		0
169	In Love with a Corporation Without Knowing It: An Asymmetrical Relationship. Frontiers in Artificial Intelligence and Applications, 2020, , .	0.3	0