

Rachid Alami

List of Publications by Year in descending order

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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	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
2	KHAOS: a Kinematic Human Aware Optimization-based System for Reactive Planning of Flying-Coworker. , 2022, , .		4
3	HATP/EHDA: A Robot Task Planner Anticipating and Eliciting Human Decisions and Actions. , 2022, , .		4
4	What Is It to Implement a Human-Robot Joint Action?. , 2021, , 229-238.		2
5	A Human-Aware Task Planner Explicitly Reasoning About Human and Robot Decision, Action and Reaction. , 2021, , .		3
6	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
7	Extending Referring Expression Generation through shared knowledge about past Human-Robot collaborative activity. , 2021, , .		1
8	Human-Aware Navigation Planner for Diverse Human-Robot Interaction Contexts. , 2021, , .		20
9	HATEB-2: Reactive Planning and Decision making in Human-Robot Co-navigation. , 2020, , .		5
10	Efficient, Situated and Ontology based Referring Expression Generation for Human-Robot collaboration. , 2020, , .		7
11	Toward a Robot Computing an Online Estimation of the Quality of its Interaction with its Human Partner. , 2020, , .		6
12	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
13	Viewing Robot Navigation in Human Environment as a Cooperative Activity. Springer Proceedings in Advanced Robotics, 2020, , 285-300.	1.3	20
14	Human Aware Task Planning Using Verbal Communication Feasibility and Costs. Lecture Notes in Computer Science, 2020, , 554-565.	1.3	9
15	The Unexpected Daily Situations (UDS) Dataset. , 2020, , .		0
16	In Love with a Corporation Without Knowing It: An Asymmetrical Relationship. Frontiers in Artificial Intelligence and Applications, 2020, , .	0.3	0
17	Combining Assembly Planning and Geometric Task Planning. Springer Tracts in Advanced Robotics, 2019, , 299-316.	0.4	3
18	Reasoning on Shared Visual Perspective to Improve Route Directions. , 2019, , .		3

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19	Ontologenius: A long-term semantic memory for robotic agents. , 2019, , .		12
20	Simulation-based physics reasoning for consistent scene estimation in an HRI context. , 2019, , .		6
21	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
22	Should a Robot Guide Like a Human? A Qualitative Four-Phase Study of a Shopping Mall Robot. Lecture Notes in Computer Science, 2019, , 548-557.	1.3	14
23	Semantic Spatial Representation: a unique representation of an environment based on an ontology for robotic applications. , 2019, , .		6
24	Design and Development of the First Prototype of a Social, Intelligent and Connected Help Desk. , 2019, , .		1
25	UNDERWORLDS: Cascading Situation Assessment for Robots. , 2018, , .		10
26	Evaluating the Pertinence of Robot Decisions in a Human-Robot Joint Action Context: The PerDITA Questionnaire. , 2018, , .		4
27	Pharmacological and chemical properties of some marine echinoderms. Revista Brasileira De Farmacognosia, 2018, 28, 575-581.	1.4	14
28	Toward Self-Aware Robots. Frontiers in Robotics and AI, 2018, 5, 88.	3.2	35
29	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
30	A Human-Robot Cooperative Navigation Planner. , 2017, , .		9
31	Artificial cognition for social human-robot interaction: An implementation. Artificial Intelligence, 2017, 247, 45-69.	5.8	239
32	Assessing the social criteria for human-robot collaborative navigation: A comparison of human-aware navigation planners. , 2017, , .		20
33	Key Elements for Human-Robot Joint Action. Studies in the Philosophy of Sociality, 2017, , 159-177.	0.3	22
34	About Decisions During Human-Robot Shared Plan Achievement: Who Should Act and How?. Lecture Notes in Computer Science, 2017, , 453-463.	1.3	13
35	Robots learning how and where to approach people. , 2016, , .		34
36	Attentional supervision of human-robot collaborative plans. , 2016, , .		7

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37	Using human knowledge awareness to adapt collaborative plan generation, explanation and monitoring. , 2016, , .		31
38	An implemented theory of mind to improve human-robot shared plans execution. , 2016, , .		88
39	A novel concept of Human-Robot competition for evaluating a robot's reasoning capabilities in HRI. , 2016, , .		3
40	The MuMMER Project: Engaging Human-Robot Interaction in Real-World Public Spaces. Lecture Notes in Computer Science, 2016, , 753-763.	1.3	39
41	On Planning and Task Achievement Modalities for Human-Robot Collaboration. Springer Tracts in Advanced Robotics, 2016, , 293-306.	0.4	22
42	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
43	A Human-Robot Competition: Towards Evaluating Robots's Reasoning Abilities for HRI. Lecture Notes in Computer Science, 2016, , 138-147.	1.3	1
44	Combining symbolic and geometric planning to synthesize human-aware plans: toward more efficient combined search. , 2015, , .		18
45	Planning handovers involving humans and robots in constrained environment. , 2015, , .		12
46	The HATP hierarchical planner: Formalisation and an initial study of its usability and practicality. , 2015, , .		14
47	Enhancing sampling-based kinodynamic motion planning for quadrotors. , 2015, , .		7
48	Toward a better understanding of the communication cues involved in a human-robot object transfer. , 2015, , .		20
49	Developmental Social Robotics: An Applied Perspective. International Journal of Social Robotics, 2015, 7, 417-420.	4.6	3
50	An Adaptive and Proactive Human-Aware Robot Guide. Lecture Notes in Computer Science, 2015, , 194-203.	1.3	11
51	Users's Belief Awareness in Reinforcement Learning-Based Situated Human's Robot Dialogue Management. , 2015, , 73-86.		4
52	Evaluating directional cost models in navigation. , 2014, , .		27
53	Planning agile motions for quadrotors in constrained environments. , 2014, , .		14
54	Online trajectory tracking based on model predictive control for Service Robot. , 2014, , .		1

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55	A new approach to combined symbolic-geometric backtracking in the context of human-robot interaction. , 2014, , .		10
56	A framework for endowing an interactive robot with reasoning capabilities about perspective-taking and belief management. , 2014, , .		49
57	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
58	Simulating Human-Robot Interactions for Dialogue Strategy Learning. Lecture Notes in Computer Science, 2014, , 62-73.	1.3	3
59	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
60	Mightability: A Multi-state Visuo-spatial Reasoning for Human-Robot Interaction. Springer Tracts in Advanced Robotics, 2014, , 49-63.	0.4	1
61	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
62	Human-aware robot navigation: A survey. Robotics and Autonomous Systems, 2013, 61, 1726-1743.	5.1	523
63	“Talking to my robot”: From knowledge grounding to dialogue processing. , 2013, , .		2
64	On human models for collaborative robots. , 2013, , .		8
65	An interface for interleaved symbolic-geometric planning and backtracking. , 2013, , .		20
66	Affordance graph: A framework to encode perspective taking and effort based affordances for day-to-day human-robot interaction. , 2013, , .		9
67	Explicit knowledge and the deliberative layer: Lessons learned. , 2013, , .		5
68	Natural interaction for object hand-over. , 2013, , .		1
69	Human-robot interaction in the MORSE simulator. , 2012, , .		16
70	Roboscopia. , 2012, , .		16
71	Taskability Graph: Towards analyzing effort based agent-agent affordances. , 2012, , .		9
72	When the robot puts itself in your shoes. Managing and exploiting human and robot beliefs. , 2012, , .		12

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73	Sharing effort in planning human-robot handover tasks. , 2012, , .		55
74	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
75	A Human-Aware Manipulation Planner. IEEE Transactions on Robotics, 2012, 28, 1045-1057.	10.3	117
76	Towards planning Human-Robot Interactive manipulation tasks: Task dependent and human oriented autonomous selection of grasp and placement. , 2012, , .		24
77	Grounding the Interaction: Anchoring Situated Discourse in Everyday Human-Robot Interaction. International Journal of Social Robotics, 2012, 4, 181-199.	4.6	63
78	What are you talking about? Grounding dialogue in a perspective-aware robotic architecture. , 2011, , .		8
79	Towards a platform-independent cooperative human-robot interaction system: II. Perception, execution and imitation of goal directed actions. , 2011, , .		7
80	Towards a platform-independent cooperative human-robot interaction system: II. Perception, execution and imitation of goal directed actions. , 2011, , .		8
81	Physiological and subjective evaluation of a humanâ€™robot object hand-over task. Applied Ergonomics, 2011, 42, 785-791.	3.1	100
82	Planning human-aware motions using a sampling-based costmap planner. , 2011, , .		75
83	Situation assessment for human-robot interactive object manipulation. , 2011, , .		25
84	Towards multi-state visuo-spatial reasoning based proactive human-robot interaction. , 2011, , .		10
85	Pivoting based manipulation by a humanoid robot. Autonomous Robots, 2010, 28, 77-88.	4.8	42
86	Synthesizing Robot Motions Adapted to Human Presence. International Journal of Social Robotics, 2010, 2, 329-343.	4.6	101
87	Plan-Based Control of Joint Human-Robot Activities. KI - Kunstliche Intelligenz, 2010, 24, 223-231.	3.2	17
88	Mightability maps: A perceptual level decisional framework for co-operative and competitive human-robot interaction. , 2010, , .		30
89	Solving ambiguities with perspective taking. , 2010, , .		2
90	A framework towards a socially aware Mobile Robot motion in Human-Centered dynamic environment. , 2010, , .		44

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91	ORO, a knowledge management platform for cognitive architectures in robotics. , 2010, , .		91
92	Which one? Grounding the referent based on efficient human-robot interaction. , 2010, , .		54
93	Exploiting human cooperation in human-centered robot navigation. , 2010, , .		27
94	Solving ambiguities with perspective taking. , 2010, , .		2
95	Regrasp planning for pivoting manipulation by a humanoid robot. , 2009, , .		11
96	SHARY: A Supervision System Adapted to Human-Robot Interaction. Springer Tracts in Advanced Robotics, 2009, , 229-238.	0.4	29
97	A Plan Manager for Multi-robot Systems. International Journal of Robotics Research, 2009, 28, 220-240.	8.5	15
98	A Hybrid Approach to Intricate Motion, Manipulation and Task Planning. International Journal of Robotics Research, 2009, 28, 104-126.	8.5	168
99	Towards a sociable robot guide which respects and supports the human activity. , 2009, , .		2
100	Towards shared attention through geometric reasoning for Human Robot Interaction. , 2009, , .		16
101	A Task Planner for an Autonomous Social Robot. , 2009, , 335-344.		15
102	Geometric Tools for Perspective Taking for Human–Robot Interaction. , 2008, , .		9
103	Whole-body motion planning for pivoting based manipulation by humanoids. , 2008, , .		19
104	Supervision and motion planning for a mobile manipulator interacting with humans. , 2008, , .		17
105	A Plan Manager for Multi-robot Systems. Springer Tracts in Advanced Robotics, 2008, , 443-452.	0.4	3
106	Planning human centered robot activities. , 2007, , .		30
107	A Software component for simultaneous plan execution and adaptation. , 2007, , .		3
108	Pivoting based manipulation by humanoids: a controllability analysis. , 2007, , .		11

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109	Formation flight: evaluation of autonomous configuration control algorithms. , 2007, , .		7
110	Spatial reasoning for human robot interaction. , 2007, , .		36
111	A management of mutual belief for human-robot interaction. , 2007, , .		5
112	A FRAMEWORK FOR SIMULTANEOUS PLAN EXECUTION AND ADAPTATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 409-414.	0.4	1
113	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
114	A Human Aware Mobile Robot Motion Planner. , 2007, 23, 874-883.		365
115	A study of interaction between dialog and decision for human-robot collaborative task achievement. , 2007, , .		14
116	Provably Safe Motions Strategies for Mobile Robots in Dynamic Domains. Springer Tracts in Advanced Robotics, 2007, , 85-106.	0.4	9
117	Decision Making in Multi-UAVs Systems: Architecture and Algorithms. , 2007, , 15-48.		13
118	Implementing a Human-Aware Robot System. , 2006, , .		17
119	Planning and control for Unmanned Air Vehicle formation flight. , 2006, , .		11
120	Safe proactive plans and their execution. Robotics and Autonomous Systems, 2006, 54, 244-255.	5.1	39
121	A mobile robot that performs human acceptable motions. , 2006, , .		17
122	Rackham: An Interactive Robot-Guide. , 2006, , .		34
123	Safe and dependable physical human-robot interaction in anthropic domains: State of the art and challenges. , 2006, , .		150
124	aSyMov: A Planner That Deals with Intricate Symbolic and Geometric Problems. Springer Tracts in Advanced Robotics, 2005, , 100-110.	0.4	40
125	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
126	Task planning for human-robot interaction. , 2005, , .		43

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127	A methodological approach relating the classification of gesture to identification of human intent in the context of human-robot interaction. , 2005, , .		72
128	Task planning and control for a multi-UAV system: architecture and algorithms. , 2005, , .		44
129	A distributed tasks allocation scheme in multi-UAV context. , 2004, , .		121
130	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
131	Plan-Based Multi-robot Cooperation. Lecture Notes in Computer Science, 2002, , 1-20.	1.3	9
132	Multi-robot cooperation in the MARTHA project. IEEE Robotics and Automation Magazine, 1998, 5, 36-47.	2.0	180
133	An Architecture for Autonomy. International Journal of Robotics Research, 1998, 17, 315-337.	8.5	357
134	Planning with non-deterministic events for enhanced robot autonomy. Robotics and Autonomous Systems, 1996, 18, 311-317.	5.1	1
135	An architecture for task interpretation and execution control for intervention robots: Preliminary experiments. , 1993, , 207-221.		1
136	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
137	Multi-robot cooperation through the common use of "mechanisms". , 0, , .		2
138	NNS: A Lisp-based environment for the integration and operating of complex robotics systems. , 0, , .		11
139	Programming of flexible assembly cell: Task modelling and system integration. , 0, , .		14
140	Representation and propagation of positioning uncertainties through manipulation robot programs-integration into a task-level programming system. , 0, , .		17
141	Task Level Programming And Robot Autonomy. , 0, , .		2
142	Hardware and software architecture for execution control of an autonomous mobile robot. , 0, , .		7
143	Integrated planning and execution control of autonomous robot actions. , 0, , .		34
144	Motion planning for a robot and a movable object amidst polygonal obstacles. , 0, , .		11

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145	A paradigm for plan-merging and its use for multi-robot cooperation. , 0, , .		14
146	Planning robust motion strategies for a mobile robot. , 0, , .		17
147	A numerical technique for planning motion strategies of a mobile robot in presence of uncertainty. , 0, , .		38
148	Multi-robot cooperation through incremental plan-merging. , 0, , .		54
149	A fleet of autonomous and cooperative mobile robots. , 0, , .		2
150	PRS: a high level supervision and control language for autonomous mobile robots. , 0, , .		77
151	Incremental mission allocation to a large team of robots. , 0, , .		16
152	How to solve deadlock situations within the plan-merging paradigm for multi-robot cooperation. , 0, , .		20
153	Operating a large fleet of mobile robots using the plan-merging paradigm. , 0, , .		7
154	Planning coordination and execution in multi-robots environment. , 0, , .		4
155	M+: a scheme for multi-robot cooperation through negotiated task allocation and achievement. , 0, , .		139
156	Diligent: towards a human-friendly navigation system. , 0, , .		8
157	Incremental topological modeling using local Voronoi-like graphs. , 0, , .		25
158	Global nearness diagram navigation (GND). , 0, , .		31
159	An architecture for dependable autonomous robots. , 0, , .		12
160	Let's reduce the gap between task planning and motion planning. , 0, , .		2
161	An extension of the plan-merging paradigm for multi-robot coordination. , 0, , .		10
162	Building topological models for navigation in large scale environments. , 0, , .		9

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163	On the influence of sensor capacities and environment dynamics onto collision-free motion plans. , 0, , .		21
164	Playing with several roadmaps to solve manipulation problems. , 0, , .		10
165	A method for handling multiple roadmaps and its use for complex manipulation planning. , 0, , .		6
166	A decisional framework for autonomous robots interacting with humans. , 0, , .		9
167	Navigation in the presence of humans. , 0, , .		57
168	Supervision and interaction. , 0, , .		4
169	A Grasp Planner Based On Inertial Properties. , 0, , .		16