

Francois Michaud

List of Publications by Year in descending order

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55
papers

2,578
citations

566801

15
h-index

344852

36
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62
all docs

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docs citations

62
times ranked

2166
citing authors

#	ARTICLE	IF	CITATIONS
1	RTAB-Map as an open-source lidar and visual simultaneous localization and mapping library for large-scale and long-term online operation. Journal of Field Robotics, 2019, 36, 416-446.	3.2	484
2	Appearance-Based Loop Closure Detection for Online Large-Scale and Long-Term Operation. IEEE Transactions on Robotics, 2013, 29, 734-745.	7.3	290
3	Exploring the use of a mobile robot as an imitation agent with children with low-functioning autism. Autonomous Robots, 2008, 24, 147-157.	3.2	248
4	Online global loop closure detection for large-scale multi-session graph-based SLAM. , 2014, , .		240
5	Robust localization and tracking of simultaneous moving sound sources using beamforming and particle filtering. Robotics and Autonomous Systems, 2007, 55, 216-228.	3.0	223
6	Roball, the Rolling Robot. Autonomous Robots, 2002, 12, 211-222.	3.2	135
7	Multi-Modal Locomotion Robotic Platform Using Leg-Track-Wheel Articulations. Autonomous Robots, 2005, 18, 137-156.	3.2	122
8	Lightweight and optimized sound source localization and tracking methods for open and closed microphone array configurations. Robotics and Autonomous Systems, 2019, 113, 63-80.	3.0	60
9	Going into the wild in child-robot interaction studies: issues in social robotic development. Intelligent Service Robotics, 2008, 1, 93-108.	1.6	58
10	Long-term online multi-session graph-based SPLAM with memory management. Autonomous Robots, 2018, 42, 1133-1150.	3.2	58
11	The ManyEars open framework. Autonomous Robots, 2013, 34, 217-232.	3.2	53
12	Memory management for real-time appearance-based loop closure detection. , 2011, , .		48
13	Ultrasonic relative positioning for multi-robot systems. , 2008, , .		47
14	Design and Control of a Four Steered Wheeled Mobile Robot. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	35
15	Behavior-Based Systems. , 2008, , 891-909.		35
16	Learning from History for Behavior-Based Mobile Robots in Non-Stationary Conditions. Machine Learning, 1998, 31, 141-167.	3.4	32
17	Contact-Free Respiration Rate Monitoring Using a Pan-Tilt Thermal Camera for Stationary Bike Telerehabilitation Sessions. IEEE Systems Journal, 2016, 10, 1046-1055.	2.9	31
18	Perspectives on Mobile Robots as Tools for Child Development and Pediatric Rehabilitation. Assistive Technology, 2007, 19, 21-36.	1.2	29

#	ARTICLE	IF	CITATIONS
19	Design and integration of a spatio-temporal memory with emotional influences to categorize and recall the experiences of an autonomous mobile robot. <i>Autonomous Robots</i> , 2016, 40, 831-848.	3.2	28
20	Artificial Emotion and Social Robotics. , 2000, , 121-130.		24
21	Designing & developing QueBall, a robotic device for autism therapy. , 2014, , .		22
22	Optimization of Upper Extremity Rehabilitation by Combining Telerehabilitation With an Exergame in People With Chronic Stroke: Protocol for a Mixed Methods Study. <i>JMIR Research Protocols</i> , 2020, 9, e14629.	0.5	20
23	A Personalized Home-Based Rehabilitation Program Using Exergames Combined With a Telerehabilitation App in a Chronic Stroke Survivor: Mixed Methods Case Study. <i>JMIR Serious Games</i> , 2021, 9, e26153.	1.7	18
24	Learning from History for Behavior-Based Mobile Robots in Non-Stationary Conditions. <i>Autonomous Robots</i> , 1998, 5, 335-354.	3.2	15
25	Force-guidance of a compliant omnidirectional non-holonomic platform. <i>Robotics and Autonomous Systems</i> , 2014, 62, 579-590.	3.0	15
26	Managing robot autonomy and interactivity using motives and visual communication. , 1999, , .		14
27	Cheap or Robust? The practical realization of self-driving wheelchair technology. , 2017, 2017, 1079-1086.		14
28	Representation of behavioral history for learning in nonstationary conditions. <i>Robotics and Autonomous Systems</i> , 1999, 29, 187-200.	3.0	13
29	Toward Autonomous, Compliant, Omnidirectional Humanoid Robots for Natural Interaction in Real-Life Settings. <i>Paladyn</i> , 2010, 1, 57-65.	1.9	12
30	OpenTera: A microservice architecture solution for rapid prototyping of robotic solutions to COVID-19 challenges in care facilities. <i>Health and Technology</i> , 2022, 12, 583-596.	2.1	12
31	Instantaneous centre of rotation based motion control for omnidirectional mobile robots with sideways off-centred wheels. <i>Robotics and Autonomous Systems</i> , 2018, 106, 58-68.	3.0	11
32	Addressing the Ethics of Telepresence Applications Through End-User Engagement. <i>Journal of Alzheimer's Disease</i> , 2020, 76, 457-460.	1.2	11
33	Adding navigation, artificial audition and vital sign monitoring capabilities to a telepresence mobile robot for remote home care applications. , 2017, 2017, 809-811.		10
34	Taking your robot for a walk: Force-guiding a mobile robot using compliant arms. , 2013, , .		9
35	Development of a Web-Based Monitoring System for Power Tilt-in-Space Wheelchairs: Formative Evaluation. <i>JMIR Rehabilitation and Assistive Technologies</i> , 2019, 6, e13560.	1.1	9
36	Architectural Methodology Based on Intentional Configuration of Behaviors. <i>Computational Intelligence</i> , 2001, 17, 132-156.	2.1	8

#	ARTICLE	IF	CITATIONS
37	3D Localization of a Sound Source Using Mobile Microphone Arrays Referenced by SLAM. , 2020, , .		8
38	ODAS: Open embeddeD Audition System. Frontiers in Robotics and AI, 2022, 9, .	2.0	8
39	Multi-Session Visual SLAM for Illumination-Invariant Re-Localization in Indoor Environments. Frontiers in Robotics and AI, 0, 9, .	2.0	8
40	Embedded auditory system for small mobile robots. , 2008, , .		7
41	Coordination mechanism for integrated design of Human-Robot Interaction scenarios. Paladyn, 2017, 8, 100-111.	1.9	7
42	Adapting a Personâ€™s Home in 3D Using a Mobile App (MapIt): Participatory Design Framework Investigating the Appâ€™s Acceptability. JMIR Rehabilitation and Assistive Technologies, 2021, 8, e24669.	1.1	6
43	Toward enhancing the autonomy of a telepresence mobile robot for remote home care assistance. Paladyn, 2021, 12, 214-237.	1.9	6
44	Rehabilitation of Upper Extremity by Telerehabilitation Combined With Exergames in Survivors of Chronic Stroke: Preliminary Findings From a Feasibility Clinical Trial. JMIR Rehabilitation and Assistive Technologies, 2022, 9, e33745.	1.1	6
45	Effects of Telerehabilitation on Patient Adherence to a Rehabilitation Plan: Protocol for a Mixed Methods Trial. JMIR Research Protocols, 2021, 10, e32134.	0.5	5
46	User perspectives on emotionally aligned social robots for older adults and persons living with dementia. Journal of Rehabilitation and Assistive Technologies Engineering, 2022, 9, 205566832211083.	0.6	5
47	Iterative Design of Advanced Mobile Robots. Journal of Computing and Information Technology, 2009, 17, 1.	0.2	4
48	Multimodal biometric identification system for mobile robots combining human metrology to face recognition and speaker identification. , 2014, , .		3
49	Enhancing a beam+ telepresence robot for remote home care applications. , 2017, , .		2
50	Estimation of the instantaneous centre of rotation with nonholonomic omnidirectional mobile robots. Robotics and Autonomous Systems, 2018, 106, 47-57.	3.0	2
51	The acceptability of two remote monitoring modalities for patients waiting for services in a physiotherapy outpatient clinic. Musculoskeletal Care, 2022, 20, 616-624.	0.6	2
52	Hello robot can you come here?. , 2014, , .		1
53	Integration framework for speech processing with live visualization interfaces. , 2016, , .		1
54	Remote rehabilitation training using the combination of an exergame and telerehabilitation application: A case report of an elderly chronic stroke survivor. , 2019, , .		1

#	ARTICLE	IF	CITATIONS
55	Artificial fast-adapting mechanoreceptor based on carbon nanotube percolating network. Scientific Reports, 2022, 12, 2818.	1.6	1