

# Catherine Bidard

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

286  
citations

1162367

8  
h-index

1372195

10  
g-index

25  
all docs

25  
docs citations

25  
times ranked

237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Safety Assessment of Rehabilitation Robots: A Review Identifying Safety Skills and Current Knowledge Gaps. <i>Frontiers in Robotics and AI</i> , 2021, 8, 602878.	2.0	46
2	Validating Safety in Human-Robot Collaboration: Standards and New Perspectives. <i>Robotics</i> , 2021, 10, 65.	2.1	41
3	Design of a High Fidelity Haptic Device for Telesurgery. , 0, , .		29
4	Experimental study on haptic communication of a human in a shared human-robot collaborative task. , 2012, , .		26
5	A new compliant mechanism design methodology based on flexible building blocks. , 2004, 5383, 244.		14
6	Modeling and Identification of a 3 DOF Haptic Interface. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	14
7	Design of a New Parallel Haptic Device for Desktop Applications. , 0, , .		12
8	Design and flexible modeling of a long reach articulated carrier for inspection. , 2007, , .		12
9	Robot Assistance Selection for Large Object Manipulation with a Human. , 2013, , .		11
10	On the geometry of rigid-body motions: The relation between Lie groups and screws. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2002, 216, 13-23.	1.1	9
11	Analysis of Interlaboratory Safety Related Tests in Power and Force Limited Collaborative Robots. <i>IEEE Access</i> , 2021, 9, 80873-80882.	2.6	9
12	COVER - Towards Simplified Evaluation and Validation of Collaborative Robotics Applications Across a Wide Range of Domains Based on Robot Safety Skills. <i>Biosystems and Biorobotics</i> , 2019, , 123-126.	0.2	9
13	ITER Articulated Inspection Arm (AIA): Geometric calibration issues of a long-reach flexible robot. <i>Fusion Engineering and Design</i> , 2005, 75-79, 543-546.	1.0	8
14	Dynamic identification of the hydraulic Maestro manipulator - Relevance for monitoring. <i>Fusion Engineering and Design</i> , 2005, 75-79, 559-564.	1.0	8
15	Kinematic structure of mechanisms: a bond graph approach. <i>Journal of the Franklin Institute</i> , 1991, 328, 901-915.	1.9	7
16	Balance control for an underactuated leg exoskeleton based on capture point concept and human balance strategies. , 2016, , .		7
17	Decoupling control based on virtual mechanisms for telemanipulation. , 0, , .		6
18	Bond graph and variable causality. , 0, , .		5

#	ARTICLE	IF	CITATIONS
19	Balance Control for an Active Leg Exoskeleton Based on Human Balance Strategies. Mechanisms and Machine Science, 2018, , 197-211.	0.3	4
20	Dual Basis of Screw-Vectors for Inverse Kinestatic Problems in Robotics. , 1994, , 339-348.		3
21	Flexible Modeling of a Long Reach Articulated Carrier: Geometric and Elastic Error Calibration. , 2007, , .		2
22	COVR Toolkit â€“ Supporting safety of interactive robotics applications. , 2021, , .		2
23	Calibration Using Generalized Error Matrices of a Long Reach Articulated Carrier. , 2007, , .		1
24	Long Reach Articulated Carrier: Geometric and Elastic Error Calibration of the Flexible Model Followed by Nonlinear Generalized Error Calibration With Ordinary Polynomials. , 2007, , 887.		1
25	Characterization of a medical interface. , 2007, , .		0