Adrien Escande

List of Publications by Year
in descending order

57 papers	**1,532** citations	759233 **12** h-index	677142 **22** g-index
58 all docs	**58** docs citations	**58** times ranked	**1051** citing authors

#	Article	IF	Citations
1	Online Object Searching by a Humanoid Robot in an Unknown Environment. IEEE Robotics and Automation Letters, 2021, 6, 2862-2869.	5.1	10
2	On compliance and safety with torque-control for robots with high reduction gears and no joint-torque feedback. , 2021, , .		3
3	Capturability-Based Pattern Generation for Walking With Variable Height. IEEE Transactions on Robotics, 2020, 36, 517-536.	10.3	45
4	An inverse dynamics-based multi-contact locomotion control framework without joint torque feedback. Advanced Robotics, 2020, 34, 1398-1419.	1.8	5
5	Sequential Trajectory Generation for Dynamic Multi-Contact Locomotion Synchronizing Contact. International Journal of Humanoid Robotics, 2020, 17, 2050003.	1.1	3
6	Toward a Human(oid) Motion Planner. Springer Proceedings in Advanced Robotics, 2020, , 233-247.	1.3	0
7	Vision-based Belt Manipulation by Humanoid Robot. , 2020, , .		0
8	Soft robots locomotion and manipulation control using FEM simulation and quadratic programming. , 2019, , .		25
9	Humanoid Robots in Aircraft Manufacturing: The Airbus Use Cases. IEEE Robotics and Automation Magazine, 2019, 26, 30-45.	2.0	57
10	Cable Installation by a Humanoid Integrating Dual-arm Manipulation and Walking. , 2019, , .		4
11	Multi-Contact Stabilization of a Humanoid Robot for Realizing Dynamic Contact Transitions on Non-coplanar Surfaces. , 2019, , .		10
12	Multi-contact Motion Planning and Control. , 2019, , 1763-1804.		7
13	Quotient-Space Motion Planning. , 2018, , .		15
14	Online 3D CoM Trajectory Generation for Multi-Contact Locomotion Synchronizing Contact. , 2018, , .		5
15	Robust Humanoid Control Using a QP Solver with Integral Gains. , 2018, , .		13
16	Singularity Resolution in Equality and Inequality Constrained Hierarchical Task-Space Control by Adaptive Nonlinear Least Squares. IEEE Robotics and Automation Letters, 2018, 3, 3630-3637.	5.1	10
17	Multicontact Postures Computation on Manifolds. IEEE Transactions on Robotics, 2018, 34, 1252-1265.	10.3	16
18	Dual-arm Cable Manipulation by Whole-body Control of a Humanoid Robot. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 2A2-H11.	0.0	0

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19	Optimization-Based Inverse Model of Soft Robots With Contact Handling. IEEE Robotics and Automation Letters, 2017, 2, 1413-1419.	5.1	65
20	Geometric and Numerical Aspects of Redundancy. Springer Tracts in Advanced Robotics, 2017, , 67-85.	0.4	5
21	Design of optimized soft soles for humanoid robots. Robotics and Autonomous Systems, 2017, 95, 129-142.	5.1	8
22	A circuit-breaker use-case operated by a humanoid in aircraft manufacturing. , 2017, , .		13
23	Nut fastening with a humanoid robot. , 2017, , .		13
24	Multi-contact Motion Planning and Control. , 2017, , 1-42.		7
25	Parametrization of Catmull-Clark subdivision surfaces for posture generation. , 2016, , .		2
26	Identification of fully physical consistent inertial parameters using optimization on manifolds. , 2016, , .		38
27	Humanoid and Human Inertia Parameter Identification Using Hierarchical Optimization. IEEE Transactions on Robotics, 2016, 32, 726-735.	10.3	56
28	Fast closest logarithm algorithm in the special orthogonal group. IMA Journal of Numerical Analysis, 2016, 36, 675-687.	2.9	1
29	Multi-contact vertical ladder climbing with an HRP-2 humanoid. Autonomous Robots, 2016, 40, 561-580.	4.8	79
30	GPU Robot Motion Planning Using Semi-Infinite Nonlinear Programming. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 2926-2939.	5.6	22
31	Continuously satisfying constraints with contact forces in trajectory optimization for humanoid robots. , 2015, , .		3
32	Humanoid posture generation on non-Euclidean manifolds. , 2015, , .		7
33	Identification of dynamics of humanoids: Systematic exciting motion generation. , 2015, , .		6
34	Model preview control in multi-contact motion-application to a humanoid robot. , 2014, , .		70
35	Integration of non-inclusive contacts in posture generation. , 2014, , .		4
36	Hierarchical quadratic programming: Fast online humanoid-robot motion generation. International Journal of Robotics Research, 2014, 33, 1006-1028.	8.5	414

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37	A Strictly Convex Hull for Computing Proximity Distances With Continuous Gradients. IEEE Transactions on Robotics, 2014, 30, 666-678.	10.3	32
38	Multi-Objective Control of Robots. Journal of the Robotics Society of Japan, 2014, 32, 512-518.	0.1	3
39	Point-cloud multi-contact planning for humanoids: Preliminary results. , 2013, , .		10
40	Planning contact points for humanoid robots. Robotics and Autonomous Systems, 2013, 61, 428-442.	5.1	87
41	Real-time smooth task transitions for hierarchical inverse kinematics. , 2013, , .		23
42	A hierarchical framework for realizing dynamically-stable motions of humanoid robot in obstacle-cluttered environments. , 2012, , .		7
43	Interactive Virtual Humans: A Two-Level Prioritized Control Framework With Wrench Bounds. IEEE Transactions on Robotics, 2012, 28, 1309-1322.	10.3	13
44	An energy based two level prioritized control for virtual humans. , 2011, , .		1
45	Interactive dynamics and balance of a virtual character during manipulation tasks. , 2011, , .		14
46	A new optimization based approach for push recovery in case of multiple noncoplanar contacts. , 2011, , .		3
47	AUTONOMOUS 3D OBJECT MODELING BY A HUMANOID USING AN OPTIMIZATION-DRIVEN NEXT-BEST-VIEW FORMULATION. International Journal of Humanoid Robotics, 2010, 07, 407-428.	1.1	9
48	Fast resolution of hierarchized inverse kinematics with inequality constraints. , 2010, , .		76
49	A two-steps next-best-view algorithm for autonomous 3D object modeling by a humanoid robot. , 2009, , .		18
50	Contact planning for acyclic motion with task constraints and experiment on HRP-2 humanoid. , 2009, , .		0
51	Potential field guide for humanoid multicontacts acyclic motion planning. , 2009, , .		27
52	Contact planning for acyclic motion with tasks constraints. , 2009, , .		17
53	Planning contact supports for acyclic motion with task constraints and experiment on HRP-2. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 155-160.	0.4	2
54	Planning Support Contact-Points for Acyclic Motions and Experiments on HRP-2. Springer Tracts in Advanced Robotics, 2009, , 293-302.	0.4	24

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55	Real-time (self)-collision avoidance task on a hrp-2 humanoid robot. , 2008, , .		56
56	Continuous gradient proximity distance for humanoids free-collision optimized-postures. , 2007, , .		32
57	Planning support contact-points for humanoid robots and experiments on HRP-2. , 2006, , .		35