

# Kenneth J Waldron

## List of Publications by Year in descending order

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51  
papers

1,268  
citations

471477

17  
h-index

501174

28  
g-index

57  
all docs

57  
docs citations

57  
times ranked

605  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling Inelastic Collisions With the Hunt–Crossley Model Using the Energetic Coefficient of Restitution. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	6
2	Professional interactions with Professor Erskine Crossley. <i>Mechanism and Machine Theory</i> , 2015, 89, 72-74.	4.5	2
3	A STUDY OF THE COMPLETE STRIDE CYCLE IN DYNAMICALLY STABLE QUADRUPEDAL RUNNING. , 2014, , .		0
4	A stance period approach for simplified observation of galloping as applied to canines. <i>Robotica</i> , 2012, 30, 627-633.	1.9	0
5	A method for optimal design of an inchworm climbing robot. , 2012, , .		9
6	STUDY OF ANT LOCOMOTION IN SURFACE TRANSITIONS FOR CLIMBING ROBOT DESIGN. , 2011, , .		2
7	Characterization of an Electric-Pneumatic Hybrid Prismatic Actuator. <i>Journal of Mechanisms and Robotics</i> , 2010, 2, .	2.2	3
8	Configuration design of a robotic vehicle for rough terrain mobility. <i>International Journal of Intelligent Systems Technologies and Applications</i> , 2010, 8, 171.	0.2	0
9	Investigation of reducing fatigue and musculoskeletal disorder with passive actuators. , 2010, , .		5
10	Passively stable hopping of an articulated leg with a tendon-coupled ankle. , 2010, , .		0
11	The mechanics of biped running and a stable control strategy. <i>Robotica</i> , 2009, 27, 789.	1.9	2
12	Analyzing Bounding and Galloping Using Simple Models. <i>Journal of Mechanisms and Robotics</i> , 2009, 1, .	2.2	19
13	Configuration Design of a Robotic Vehicle for Rough Terrain Mobility. , 2008, , .		0
14	Thrust Control, Stabilization and Energetics of a Quadruped Running Robot. <i>International Journal of Robotics Research</i> , 2008, 27, 1135-1151.	8.5	78
15	A NONLINEAR MODEL FOR SIMULATING CONTACT AND COLLISION. , 2008, , .		1
16	Robotic harness for the field assessment of galloping gaits. , 2007, , .		2
17	A Physical Model and Control Strategy for Biped Running. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	2
18	A Hybrid Motion Model for Aiding State Estimation in Dynamic Quadrupedal Locomotion. <i>Proceedings - IEEE International Conference on Robotics and Automation</i> , 2007, , .	0.0	10

#	ARTICLE	IF	CITATIONS
19	An Optimal Traction Control Scheme for Off-Road Operation of Robotic Vehicles. IEEE/ASME Transactions on Mechatronics, 2007, 12, 126-133.	5.8	23
20	Stiffness and Duty Factor Models for the Design of Running Biped. , 2007, , .		0
21	THINKING ABOUT BOUNDING AND GALLOPING USING SIMPLE MODELS. , 2007, , .		2
22	Optical Flow Aided Motion Estimation for Legged Locomotion. , 2006, , .		19
23	Leg Thrust Control for Stabilization of Dynamic Gaits in a Quadruped Robot. , 2006, , 213-220.		1
24	Stiffness and texture perception for teledermatology. Studies in Health Technology and Informatics, 2005, 111, 579-85.	0.3	7
25	Control Modes for a Three-Dimensional Galloping Machine. , 2004, , 1525.		4
26	Coordination of an unmanned vehicle with active suspension over extreme terrain. , 2003, , .		0
27	Design of an agile unmanned combat vehicle: a product of the DARPA UGCV program. , 2003, , .		0
28	Mechanical Characterization of the Immersion Corp. Haptic, Bimanual, Surgical Simulator Interface. , 2003, , 106-112.		11
29	GL-Link: A Novel Telerobotics-Based Platform Supporting Distributed Mechatronic Research Via the Internet. , 2003, , .		0
30	Leg Stiffness and Articulated Leg Design for Dynamic Locomotion. , 2002, , 1105.		8
31	Simulated Medical Learning Environments on the Internet. Journal of the American Medical Informatics Association: JAMIA, 2002, 9, 437-447.	4.4	37
32	Near Optimal Coordination of Legged Vehicles Over Large Obstacles. , 2002, , 501-515.		2
33	Control of contact forces in wheeled and legged off-road vehicles. , 2000, , 205-214.		5
34	A Brief History of Biomimetic Robotics. , 2000, , 371-378.		2
35	Dynamic and Static Simulators for Wheeled Vehicles. , 1998, , 216.		0
36	An Integrated Control Strategy for Multifingered Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1995, 117, 37-42.	1.6	3

#	ARTICLE	IF	CITATIONS
37	Wrench reconstruction by using a six-axis force sensor. Mechanism and Machine Theory, 1995, 30, 383-389.	4.5	1
38	Position kinematics of a two limbed mixed mechanism. Mechanism and Machine Theory, 1993, 28, 763-775.	4.5	4
39	Series-Parallel Dualities in Actively Coordinated Mechanisms. International Journal of Robotics Research, 1991, 10, 473-480.	8.5	116
40	Technical Description of the Adaptive Suspension Vehicle. International Journal of Robotics Research, 1990, 9, 24-42.	8.5	127
41	Adaptive gait control for a walking robot. Journal of Field Robotics, 1989, 6, 49-76.	0.7	46
42	A time sequence study of a complex mechanical system design. Design Studies, 1988, 9, 95-106.	3.1	29
43	A Study of the Singular Configurations of Serial Manipulators. Journal of Mechanisms, Transmissions, and Automation in Design, 1987, 109, 14-20.	0.2	74
44	An Analytical Approach for Gait Study and Its Applications on Wave Gaits. International Journal of Robotics Research, 1987, 6, 60-71.	8.5	119
45	Motion study of two- and three-dimensional pantograph mechanisms. Mechanism and Machine Theory, 1987, 22, 321-331.	4.5	28
46	Design of a mechanical proximity sensor. Robotica, 1986, 4, 221-228.	1.9	37
47	The mechanics of mobile robots. Robotics Amsterdam, 1986, 2, 113-121.	0.2	9
48	Computer-aided geometric design of legs for a walking vehicle. Mechanism and Machine Theory, 1985, 20, 587-596.	4.5	25
49	Force and motion management in legged locomotion. , 1985, , .		4
50	Configuration Design of the Adaptive Suspension Vehicle. International Journal of Robotics Research, 1984, 3, 37-48.	8.5	151
51	Geometrically based manipulator rate control algorithms. Mechanism and Machine Theory, 1982, 17, 379-385.	4.5	50