## **Renaud Ronsse**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Oscillator-based assistance of cyclical movements: model-based and model-free approaches. Medical and Biological Engineering and Computing, 2011, 49, 1173-1185.	1.6	159
2	Motor Learning with Augmented Feedback: Modality-Dependent Behavioral and Neural Consequences. Cerebral Cortex, 2011, 21, 1283-1294.	1.6	142
3	Human–Robot Synchrony: Flexible Assistance Using Adaptive Oscillators. IEEE Transactions on Biomedical Engineering, 2011, 58, 1001-1012.	2.5	129
4	Sensing Pressure Distribution on a Lower-Limb Exoskeleton Physical Human-Machine Interface. Sensors, 2011, 11, 207-227.	2.1	96
5	An oscillator-based smooth real-time estimate of gait phase for wearable robotics. Autonomous Robots, 2017, 41, 759-774.	3.2	95
6	Motor learning-induced changes in functional brain connectivity as revealed by means of graph-theoretical network analysis. NeuroImage, 2012, 61, 633-650.	2.1	65
7	Real-Time Estimate of Velocity and Acceleration of Quasi-Periodic Signals Using Adaptive Oscillators. IEEE Transactions on Robotics, 2013, 29, 783-791.	7.3	56
8	Rhythmic Feedback Control of a Blind Planar Juggler. IEEE Transactions on Robotics, 2007, 23, 790-802.	7.3	50
9	A Computational Model for Rhythmic and Discrete Movements in Uni- and Bimanual Coordination. Neural Computation, 2009, 21, 1335-1370.	1.3	46
10	Biped gait controller for large speed variations, combining reflexes and a central pattern generator in a neuromuscular model. , 2015, , .		46
11	Walking Assistance Using Artificial Primitives: A Novel Bioinspired Framework Using Motor Primitives for Locomotion Assistance Through a Wearable Cooperative Exoskeleton. IEEE Robotics and Automation Magazine, 2016, 23, 83-95.	2.2	45
12	Adaptive oscillators with human-in-the-loop: Proof of concept for assistance and rehabilitation. , 2010, , .		43
13	Altered Gravity Highlights Central Pattern Generator Mechanisms. Journal of Neurophysiology, 2008, 100, 2819-2824.	0.9	40
14	Bio-inspired controller achieving forward speed modulation with a 3D bipedal walker. International Journal of Robotics Research, 2018, 37, 168-196.	5.8	38
15	Optimal Control of a Hybrid Rhythmic-Discrete Task: The Bouncing Ball Revisited. Journal of Neurophysiology, 2010, 103, 2482-2493.	0.9	34
16	Oscillator-based walking assistance: A model-free approach. , 2011, 2011, 5975352.		34
17	Experimental Validation of Motor Primitive-Based Control for Leg Exoskeletons during Continuous Multi-Locomotion Tasks. Frontiers in Neurorobotics, 2017, 11, 15.	1.6	34
18	Multisensory Integration in Dynamical Behaviors: Maximum Likelihood Estimation across Bimanual Skill Learning. Journal of Neuroscience, 2009, 29, 8419-8428.	1.7	32

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19	A review of terrain detection systems for applications in locomotion assistance. Robotics and Autonomous Systems, 2020, 133, 103628.	3.0	26
20	Computation of gaze orientation under unrestrained head movements. Journal of Neuroscience Methods, 2007, 159, 158-169.	1.3	21
21	Variable Stiffness Actuator applied to an active ankle prosthesis: Principle, energy-efficiency, and control. , 2012, , .		19
22	Rhythmic arm movements are less affected than discrete ones after a stroke. Experimental Brain Research, 2016, 234, 1403-1417.	0.7	18
23	Bouncing between Model and Data: Stability, Passivity, and Optimality in Hybrid Dynamics. Journal of Motor Behavior, 2010, 42, 389-399.	0.5	15
24	Torque control of an active elastic transfemoral prosthesis via quasi-static modelling. Robotics and Autonomous Systems, 2018, 107, 100-115.	3.0	15
25	Simulations of propelling and energy harvesting articulated bodies via vortex particle-mesh methods. Journal of Computational Physics, 2019, 392, 34-55.	1.9	15
26	Real-time estimate of period derivatives using adaptive oscillators: Application to impedance-based walking assistance. , 2012, , .		14
27	Robotics and neuroscience: A rhythmic interaction. Neural Networks, 2008, 21, 577-583.	3.3	12
28	Coordination of complex bimanual multijoint movements under increasing cycling frequencies: The prevalence of mirror-image and translational symmetry. Acta Psychologica, 2009, 130, 183-195.	0.7	12
29	Performance-based robotic assistance during rhythmic arm exercises. Journal of NeuroEngineering and Rehabilitation, 2016, 13, 82.	2.4	12
30	Control of bimanual rhythmic movements: trading efficiency for robustness depending on the context. Experimental Brain Research, 2008, 187, 193-205.	0.7	11
31	Novel infinitely Variable Transmission allowing efficient transmission ratio variations at rest. , 2015, ,		11
32	Neuromuscular model achieving speed control and steering with a 3D bipedal walker. Autonomous Robots, 2019, 43, 1537-1554.	3.2	11
33	Assistance using adaptive oscillators: Robustness to errors in the identification of the limb parameters. , 2011, 2011, 5975351.		10
34	Adaptive position anticipation in a support robot for overground gait training enhances transparency. , 2013, 2013, 6650483.		10
35	Feedback Control of Impact Dynamics: the Bouncing Ball Revisited. , 2006, , .		9
36	Experimental validation of a bio-inspired controller for dynamic walking with a humanoid robot. , 2015, , .		8

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37	Multi-physics modelling of a compliant humanoid robot. Multibody System Dynamics, 2017, 39, 95-114.	1.7	8
38	Model coupling biomechanics and fluid dynamics for the simulation of controlled flapping flight. Bioinspiration and Biomimetics, 2021, 16, 026023.	1.5	8
39	Stability and Sensitivity Analysis of Bird Flapping Flight. Journal of Nonlinear Science, 2021, 31, 1.	1.0	7
40	Bio-inspired balance controller for a humanoid robot. , 2016, , .		6
41	Rhythmic robotic training enhances motor skills of both rhythmic and discrete upper-limb movements after stroke: a longitudinal pilot study. International Journal of Rehabilitation Research, 2019, 42, 46-55.	0.7	6
42	Compliant Control of a Transfemoral Prosthesis by combining Feed-Forward and Feedback. , 2020, , .		6
43	Robotran-YARP Interface: A Framework for Real-Time Controller Developments Based on Multibody Dynamics Simulations. Computational Methods in Applied Sciences (Springer), 2016, , 147-164.	0.1	5
44	Motor primitive-based control for lower-limb exoskeletons. , 2016, , .		4
45	Using Depth Vision for Terrain Detection during Active Locomotion. , 2021, , .		4
46	Numerical Simulations and Development of Drafting Strategies for Robotic Swimmers at Low Reynolds Number. , 2018, , .		3
47	Continuous Modulation of Step Height and Length in Bipedal Walking, Combining Reflexes and a Central Pattern Generator. , 2018, , .		3
48	Extraction of simple monophasic motor primitives towards bio-inspired locomotion assistance. , 2019, , .		3
49	Co-evolution of Morphology and Control of a Wearable Robot for Human Locomotion Assistance Exploiting Variable Impedance Actuators. Procedia Computer Science, 2011, 7, 223-225.	1.2	2
50	Feed-forward support of human walking. , 2012, , .		2
51	Gaze stabilization of a humanoid robot based on virtual linkage. , 2016, , .		2
52	Predicting the effects of oscillator-based assistance on stride-to-stride variability of Parkinsonian walkers. , 2022, , .		2
53	Multimodal gaze stabilization of a humanoid robot based on reafferences. , 2017, , .		1
54	Augmented Neuromuscular Gait Controller Enables Real-time Tracking of Bipedal Running Speed. , 2018, , .		1

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55	Online Learning of the Dynamical Internal Model of Transfemoral Prosthesis for Enhancing Compliance. IEEE Robotics and Automation Letters, 2021, 6, 6156-6163.	3.3	1
56	Real-time smoothness-based assistance during rhythmic arm movements. , 2016, , .		0
57	Quasi-Static Modelling of a Redundant Knee Prosthesis. , 2018, , .		0
58	Trajectory Planning of a Bio-inspired Walker in 3D Cluttered Environments using Internal Models. , 2020, , .		0
59	Compliant Control of a Transfemoral Prosthesis Combining Predictive Learning and Primitive-Based Reference Trajectories. Biosystems and Biorobotics, 2022, , 89-93.	0.2	0
60	A New Terrain Recognition Approach for Predictive Control of Assistive Devices Using Depth Vision. Biosystems and Biorobotics, 2022, , 443-447.	0.2	0
61	Adaptive Oscillators as Template for Modeling and Assisting Rhythmic Movements. Biosystems and Biorobotics, 2022, , 271-275.	0.2	0
62	Bio-inspired Walking: From Humanoids to Assistive Devices. Biosystems and Biorobotics, 2019, , 271-275.	0.2	0