Bryan Convens

List of Publications by Year
in descending order

11 papers	178 citations	1478505 6 h-index	1281871 11 g-index
11 all docs	11 docs citations	11 times ranked	193 citing authors

#	Article	IF	Citations
1	Real-time motion control of robotic manipulators for safe humanâ€“robot coexistence. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102223.	9.9	28
2	Safe, Fast, and Efficient Distributed Receding Horizon Constrained Control of Aerial Robot Swarms. IEEE Robotics and Automation Letters, 2022, 7, 4173-4180.	5.1	2
3	Invariant Set Distributed Explicit Reference Governors for Provably Safe On-Board Control of Nano-Quadrotor Swarms. Frontiers in Robotics and AI, 2021, 8, 663809.	3.2	6
4	Design, Optimization and Energetic Evaluation of an Efficient Fully Powered Ankle-Foot Prosthesis With a Series Elastic Actuator. IEEE Access, 2020, 8, 61491-61503.	4.2	12
5	Modeling, Design and Test-Bench Validation of a Semi-Active Propulsive Ankle Prosthesis With a Clutched Series Elastic Actuator. IEEE Robotics and Automation Letters, 2019, 4, 1823-1830.	5.1	23
6	Failure Mode and Effect Analysis (FMEA)-Driven Design of a Planetary Gearbox for Active Wearable Robotics. Biosystems and Biorobotics, 2019, , 460-464.	0.3	5
7	Introducing Compound Planetary Gears (C-PGTs): A Compact Way to Achieve High Gear Ratios for Wearable Robots. Biosystems and Biorobotics, 2019, , 485-489.	0.3	5
8	EtherCAT Tutorial: An Introduction for Real-Time Hardware Communication on Windows [Tutorial]. IEEE Robotics and Automation Magazine, 2018, 25, 22-122.	2.0	34
9	The effects of variable mechanical parameters on peak power and energy consumption of ankle-foot prostheses at different speeds. Advanced Robotics, 2018, 32, 1229-1240.	1.8	6
10	Optimizing the power and energy consumption of powered prosthetic ankles with series and parallel elasticity. Mechanism and Machine Theory, 2017, 116, 419-432.	4.5	40
11	Control of Fully Actuated Unmanned Aerial Vehicles with Actuator Saturation * *This research has been funded by the Mandats dâ€™Impulsion Scientific â€Optimization-free Control of Nonlinear Systems subject to Constraintsâ€•of the Fonds de la Recherche Scientifique (FNRS), Ref. F452617F.. IFAC-PapersOnLine, 2017, 50, 12715-12720.	0.9	17