

# Mitja Trkov

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

248  
citations

1306789

7  
h-index

1281420

11  
g-index

30  
all docs

30  
docs citations

30  
times ranked

185  
citing authors

#	ARTICLE	IF	CITATIONS
1	Classifying hazardous movements and loads during manual materials handling using accelerometers and instrumented insoles. <i>Applied Ergonomics</i> , 2022, 101, 103693.	1.7	2
2	Recoverability-Based Optimal Control for a Bipedal Walking Model With Foot Slip. , 2021, , .		2
3	Design Optimization of a Pneumatic Soft Robotic Actuator Using Model-Based Optimization and Deep Reinforcement Learning. <i>Frontiers in Robotics and AI</i> , 2021, 8, 639102.	2.0	9
4	Real-Time Walking Gait Estimation for Construction Workers using a Single Wearable Inertial Measurement Unit (IMU). , 2021, , .		10
5	Wearable Knee Assistive Devices for Kneeling Tasks in Construction. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 1989-1996.	3.7	22
6	Postural Balance of Kneeling Gaits on Inclined and Elevated Surface for Construction Workers. , 2021, , .		3
7	Balance Recoverability and Control of Bipedal Walkers with Foot Slip. <i>Journal of Biomechanical Engineering</i> , 2021, , .	0.6	3
8	Gradient optimization of multi-layered density-graded foam laminates for footwear material design. <i>Journal of Biomechanics</i> , 2020, 109, 109950.	0.9	36
9	Compressed Gas Actuated Knee Assistive Exoskeleton for Slip-Induced Fall Prevention During Human Walking. , 2020, , .		4
10	IntelliPad: Intelligent Soft Robotic Pad for Pressure Injury Prevention. , 2020, , .		1
11	Influence of Frequency Bands in EEG Signal to Predict User Intent. , 2019, , .		2
12	Surface transitions and stair climbing and descent. , 2019, , 397-413.		0
13	Inertial Sensor-Based Slip Detection in Human Walking. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019, 16, 1399-1411.	3.4	33
14	A Stick-Slip Interactions Model of Soft-Solid Frictional Contacts. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2019, 141, .	0.9	10
15	Estimation of Lifting and Carrying Load During Manual Material Handling. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 153-161.	0.5	0
16	Bipedal Model and Hybrid Zero Dynamics of Human Walking With Foot Slip. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019, 14, .	0.7	7
17	Exploring novel objective functions for simulating muscle coactivation in the neck. <i>Journal of Biomechanics</i> , 2018, 71, 127-134.	0.9	10
18	Shoe-Floor Interactions in Human Walking With Slips: Modeling and Experiments. <i>Journal of Biomechanical Engineering</i> , 2018, 140, .	0.6	11

#	ARTICLE	IF	CITATIONS
19	Improved ergonomic risk factor assessment using opensim and inertial measurement units. , 2018, , .		5
20	Hybrid zero dynamics of human biped walking with foot slip. , 2017, , .		9
21	Design of a Robotic Knee Assistive Device (ROKAD) for Slip-Induced Fall Prevention during Walking. IFAC-PapersOnLine, 2017, 50, 9802-9807.	0.5	6
22	Disturbance observer-based balance control of robotic biped walkers under slip. , 2017, , .		1
23	Balance recovery control of human walking with foot slip. , 2016, , .		9
24	Stick-Slip Interactions of the Soft-Solid Contact: An Integrated LuGre/Beam Network Model Approach. , 2015, , .		2
25	Slip detection and prediction in human walking using only wearable inertial measurement units (IMUs). , 2015, , .		4
26	A robotic bipedal model for human walking with slips. , 2015, , .		23
27	Shoe-Floor Interactions During Human Slip and Fall: Modeling and Experiments. , 2014, , .		9
28	Modeling of pure percussive drilling for autonomous robotic bridge decks rehabilitation. , 2013, , .		3
29	Rider/bicycle pose estimation with IMU/seat force measurements. , 2012, , .		9
30	Study of concrete drilling for automated non-destructive evaluation and rehabilitation system for bridge decks. , 2011, , .		3