

Arash Arami

List of Publications by Year in descending order

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Version: 2024-02-01

48
papers

606
citations

759233

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713466

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49
all docs

49
docs citations

49
times ranked

590
citing authors

#	ARTICLE	IF	CITATIONS
1	Online Reference Trajectory Adaptation: A Personalized Control Strategy for Lower Limb Exoskeletons. IEEE Robotics and Automation Letters, 2022, 7, 128-134.	5.1	17
2	Data-driven prediction of forging outcome: Effect of preform shape on plastic strain in a magnesium alloy forging. Materials Today Communications, 2022, 31, 103210.	1.9	5
3	Balance strategy in hoverboard control. Scientific Reports, 2022, 12, 4509.	3.3	3
4	A fusion approach to improve accuracy and estimate uncertainty in cuffless blood pressure monitoring. Scientific Reports, 2022, 12, 7948.	3.3	5
5	Adaptive Reference Inverse Optimal Control for Natural Walking With Musculoskeletal Models. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1567-1575.	4.9	3
6	Cable-Driven Robotic Interface for Lower Limb Neuromechanics Identification. IEEE Transactions on Biomedical Engineering, 2021, 68, 461-469.	4.2	4
7	Natural Walking With Musculoskeletal Models Using Deep Reinforcement Learning. IEEE Robotics and Automation Letters, 2021, 6, 4156-4162.	5.1	14
8	Accurate Blood Pressure Estimation During Activities of Daily Living: A Wearable Cuffless Solution. IEEE Journal of Biomedical and Health Informatics, 2021, 25, 2510-2520.	6.3	20
9	An Adaptive Assistance Controller to Optimize the Exoskeleton Contribution in Rehabilitation. Robotics, 2021, 10, 95.	3.5	13
10	Virtual Energy Regulator: A Time-Independent Solution for Control of Lower Limb Exoskeletons. IEEE Robotics and Automation Letters, 2021, 6, 7699-7705.	5.1	7
11	A Robotic Glenohumeral Simulator for Investigating Prosthetic Implant Subluxation. Journal of Biomechanical Engineering, 2020, 142, .	1.3	1
12	Cuffless Blood Pressure Estimation for Activities of Daily Living*. , 2020, 2020, 4441-4445.		6
13	Quantitative Modeling of Spasticity for Clinical Assessment, Treatment and Rehabilitation. Sensors, 2020, 20, 5046.	3.8	15
14	The Influence of Posture, Applied Force and Perturbation Direction on Hip Joint Viscoelasticity. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1138-1145.	4.9	10
15	A Clustering-Based Approach to Identify Joint Impedance During Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1808-1816.	4.9	9
16	Nonlinear Dynamic Modeling of Blood Pressure Waveform: Towards an Accurate Cuffless Monitoring System. IEEE Sensors Journal, 2020, 20, 5368-5378.	4.7	25
17	Prediction of Gait Freezing in Parkinsonian Patients: A Binary Classification Augmented With Time Series Prediction. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 1909-1919.	4.9	34
18	Estimation of the Blood Pressure Waveform using Electrocardiography. , 2019, 2019, 7060-7063.		7

#	ARTICLE	IF	CITATIONS
19	Knee Implant Loosening Detection: A Vibration Analysis Investigation. <i>Annals of Biomedical Engineering</i> , 2018, 46, 97-107.	2.5	19
20	An Accurate Wearable Foot Clearance Estimation System: Toward a Real-Time Measurement System. <i>IEEE Sensors Journal</i> , 2017, 17, 2542-2549.	4.7	23
21	A simple tool to measure spasticity in spinal cord injury subjects. , 2017, 2017, 1590-1596.		6
22	Modelling Neuromuscular Function of SCI Patients in Balancing. <i>Biosystems and Biorobotics</i> , 2017, , 355-359.	0.3	1
23	Effects of a neuromuscular controller on a powered ankle exoskeleton during human walking. , 2016, , .		19
24	A patient-specific model of total knee arthroplasty to estimate patellar strain: A case study. <i>Clinical Biomechanics</i> , 2016, 32, 212-219.	1.2	12
25	Improving activity recognition using a wearable barometric pressure sensor in mobility-impaired stroke patients. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 72.	4.6	64
26	Locally Linear Neuro-Fuzzy Estimate of the Prosthetic Knee Angle and Its Validation in a Robotic Simulator. <i>IEEE Sensors Journal</i> , 2015, 15, 6271-6278.	4.7	7
27	Energy Expenditure Estimation Using Accelerometry and Heart Rate for Multiple Sclerosis and Healthy Older Adults. , 2014, , .		4
28	Enclosed Electronic System for Force Measurements in Knee Implants. <i>Sensors</i> , 2014, 14, 15009-15021.	3.8	15
29	Implantable and wearable measurement system for smart knee prosthesis. , 2014, , .		2
30	Smart instrumentation for determination of ligament stiffness and ligament balance in total knee arthroplasty. <i>Medical Engineering and Physics</i> , 2014, 36, 721-725.	1.7	2
31	Reference-Free Automated Magnetic Sensor Calibration for Angle Estimation in Smart Knee Prostheses. <i>IEEE Sensors Journal</i> , 2014, 14, 1788-1796.	4.7	8
32	Estimation of prosthetic knee angles via data fusion of implantable and wearable sensors. , 2013, , .		5
33	Design and test of a MEMS strain-sensing device for monitoring artificial knee implants. <i>Biomedical Microdevices</i> , 2013, 15, 831-839.	2.8	14
34	Instrumented Knee Prosthesis for Force and Kinematics Measurements. <i>IEEE Transactions on Automation Science and Engineering</i> , 2013, 10, 615-624.	5.2	27
35	A Hidden Markov Model of the breaststroke swimming temporal phases using wearable inertial measurement units. , 2013, , .		31
36	Accurate Measurement of Concurrent Flexionâ€“Extension and Internalâ€“External Rotations in Smart Knee Prostheses. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2504-2510.	4.2	11

#	ARTICLE	IF	CITATIONS
37	An Analog Front-End and ADC Integrated Circuit for Implantable Force and Orientation Measurements in Joint Prosthesis. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2013, , 295-302.	0.3	4
38	Physical activity recognition via minimal in-shoes force sensor configuration. , 2013, , .		3
39	Accurate internalâ€™external rotation measurement in total knee prostheses: A magnetic solution. Journal of Biomechanics, 2012, 45, 2023-2027.	2.1	11
40	Instrumented prosthesis for knee implants monitoring. , 2011, , .		14
41	Real-time embedded emotional controller. Neural Computing and Applications, 2010, 19, 13-19.	5.6	36
42	Attention to multiple local critics in decision making and control. Expert Systems With Applications, 2010, 37, 6931-6941.	7.6	4
43	Imitative learning based emotional controller for unknown systems with unstable equilibrium. International Journal of Intelligent Computing and Cybernetics, 2010, 3, 334-359.	2.7	7
44	Emotion on FPGA: Model driven approach. Expert Systems With Applications, 2009, 36, 7369-7378.	7.6	39
45	Emotional control of inverted pendulum system: A soft switching from imitative to emotional learning. , 2009, , .		8
46	Multiple Heterogeneous Ant Colonies with Information Exchange. , 2008, , .		3
47	A fast model free intelligent controller based on fused emotions: A practical case implementation. , 2008, , .		8
48	A Clustering Method Based on Soft Learning of Model (Prototype) and Dissimilarity Metrics. Communications in Computer and Information Science, 2008, , 33-40.	0.5	0