Samer Mohammed

List of Publications by Citations

50 papers	1,543 citations	18 h-index	39 g-index
54 ext. papers	1,940 ext. citations	3.2 avg, IF	4.97 L-index

#	Paper	IF	Citations
50	Physical Human Activity Recognition Using Wearable Sensors. *Sensors*, **2015**, 15, 31314-38	3.8	417
49	. *IEEE Systems Journal*, **2016**, 10, 1068-1081	4.3	186
48	An Unsupervised Approach for Automatic Activity Recognition Based on Hidden Markov Model Regression. *IEEE Transactions on Automation Science and Engineering*, **2013**, 10, 829-835	4.9	113
47	Control of Upper-Limb Power-Assist Exoskeleton Using a Human-Robot Interface Based on Motion Intention Recognition. *IEEE Transactions on Automation Science and Engineering*, **2015**, 12, 1257-1270	4.9	104
46	Lower-Limb Movement Assistance through Wearable Robots: State of the Art and Challenges. *Advanced Robotics*, **2012**, 26, 1-22	1.7	85
45	Ubiquitous robotics: Recent challenges and future trends. *Robotics and Autonomous Systems*, **2013**, 61, 1162-1172	3.5	62
44	Nonlinear disturbance observer based sliding mode control of a human-driven knee joint orthosis. *Robotics and Autonomous Systems*, **2016**, 75, 41-49	3.5	59
43	Data-Driven Based Approach to Aid Parkinson's Disease Diagnosis. *Sensors*, **2019**, 19,	3.8	42
42	A generalized control framework of assistive controllers and its application to lower-limb exoskeletons. *Robotics and Autonomous Systems*, **2015**, 73, 68-77	3.5	40
41	Powered orthosis for lower limb movements assistance and rehabilitation. *Control Engineering Practice*, **2014**, 26, 245-253	3.9	35
40	. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 712-719	4.8	34
39	Nested saturation based control of an actuated knee joint orthosis. *Mechatronics*, **2013**, 23, 1141-1149	3	31
38	Posture estimation and human support using wearable sensors and walking-aid robot. *Robotics and Autonomous Systems*, **2015**, 73, 24-43	3.5	29
37	Recognition of gait cycle phases using wearable sensors. *Robotics and Autonomous Systems*, **2016**, 75, 50-59	3.5	28
36	Fast Gait Mode Detection and Assistive Torque Control of an Exoskeletal Robotic Orthosis for Walking Assistance. *IEEE Transactions on Robotics*, **2018**, 1-18	6.5	28
35	Toward Movement Restoration of Knee Joint Using Robust Control of Powered Orthosis. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 2156-2168	4.8	20
34	Towards intelligent lower limb wearable robots: Challenges and perspectives - State of the art **2009**,		19

33	Automatic Recognition of Gait Phases Using a Multiple-Regression Hidden Markov Model. *IEEE/ASME Transactions on Mechatronics*, **2018**, 1-1	5.5	19
32	Knee joint movement assistance through robust control of an actuated orthosis **2011**,		18
31	Impedance Reduction Control of a Knee Joint Human-Exoskeleton System. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 2541-2556	4.8	15
30	Force Control of SEA-Based Exoskeletons for Multimode Human-Robot Interactions. *IEEE Transactions on Robotics*, **2020**, 36, 570-577	6.5	14
29	**2013**,		13
28	Adaptive Proxy-Based Controller of an Active Ankle Foot Orthosis to Assist Lower Limb Movements of Paretic Patients. *Robotica*, **2019**, 37, 2147-2164	2.1	12
27	RISE-based adaptive control for EICoSI exoskeleton to assist knee joint mobility. *Robotics and Autonomous Systems*, **2020**, 124, 103354	3.5	11
26	Hybrid FES-Exoskeleton Controller to Assist Sit-To-Stand movement. *IFAC-PapersOnLine*, **2019**, 51, 296-301	0.7	10
25	**2015**,		10
24	Active impedance control of a knee-joint orthosis during swing phase. *IEEE International Conference on Rehabilitation Robotics*, **2017**, 2017, 435-440	1.3	9
23	Optimizing Control of Passive Gait Training Exoskeleton Driven by Pneumatic Muscles Using Switch-Mode Firefly Algorithm. *Robotica*, **2019**, 37, 2087-2103	2.1	8
22	Activity recognition using body mounted sensors: An unsupervised learning based approach **2012**,		8
21	Adaptive control of an actuated-ankle-foot-orthosis. *IEEE International Conference on Rehabilitation Robotics*, **2017**, 2017, 1584-1589	1.3	7
20	Bounded control of an actuated lower limb orthosis **2011**,		7
19	**2016**,		7
18	Adaptive Control of an Actuated Ankle Foot Orthosis for Foot-Drop Correction. *IFAC-PapersOnLine*, **2017**, 50, 1384-1389	0.7	6
17	Attention-Based Gated Recurrent Unit for Gesture Recognition. *IEEE Transactions on Automation Science and Engineering*, **2021**, 18, 495-507	4.9	6
16	Recognition of different daily living activities using hidden Markov model regression **2016**,		5

15	Cooperative Control for Knee Joint Flexion-Extension Movement Restoration **2018**,		4
14	Optimal stimulation patterns for knee joint movement restoration during co-contraction of antagonist muscles **2010**,		3
13	Upper Limbs Kinematics Estimation Using Affordable Visual-Inertial Sensors. *IEEE Transactions on Automation Science and Engineering*, **2020**, 1-11	4.9	3
12	Hybrid impedance control of a knee joint orthosis. *Industrial Robot*, **2019**, 46, 192-201	1.4	2
11	Automatic Segmentation of Stabilometric Signals Using Hidden Markov Model Regression. *IEEE Transactions on Automation Science and Engineering*, **2018**, 15, 545-555	4.9	2
10	Robust Control of an Actuated Orthosis for Lower Limb Movement Restoration. *Springer Tracts in Advanced Robotics*, **2015**, 385-400	0.5	2
9	Adaptive FES Assistance Using a Novel Gait Phase Detection Approach **2018**,		2
8	Human Gait Phase Recognition using a Hidden Markov Model Framework* **2020**,		1
7	Design of a Capacitance Sensor for Human Intention Detection of Daily Living Activities. *IFAC-PapersOnLine*, **2020**, 53, 8525-8530	0.7	1
6	Special Issue on Wearable Robotics: Dynamics, Control and Applications. *Robotica*, **2019**, 37, 2011-2013	2.1	1
5	. *IEEE Transactions on Medical Robotics and Bionics*, **2021**, 1-1	3.1	1
4	. *IEEE Transactions on Robotics*, **2021**, 1-20	6.5	1
3	Proxy-Based Control of Intelligent Assistive Walker for Intentional Sit-to-Stand Transfer. *IEEE/ASME Transactions on Mechatronics*, **2021**, 1-1	5.5	1
2	Ankle Dorsiflexion Assistance Using Adaptive Functional Electrical Stimulation and Actuated Ankle Foot Orthosis. *Biosystems and Biorobotics*, **2022**, 319-323	0.2	
1	Sparse Visual-Inertial Measurement Units Placement for Gait Kinematics Assessment. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, **2021**, 29, 1300-1311	4.8	