

Kamran Iqbal

List of Publications by Year in descending order

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53
papers

759
citations

840776

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h-index

610901

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all docs

53
docs citations

53
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulated movement termination for balance recovery: can movement strategies be sought to maintain stability in the presence of slipping or forced sliding?. <i>Journal of Biomechanics</i> , 1999, 32, 779-786.	2.1	138
2	Predicted region of stability for balance recovery:. <i>Journal of Biomechanics</i> , 2000, 33, 1619-1627.	2.1	93
3	A Systematic Review on Muscle Synergies: From Building Blocks of Motor Behavior to a Neurorehabilitation Tool. <i>Applied Bionics and Biomechanics</i> , 2018, 2018, 1-15.	1.1	66
4	Real-Time Task Discrimination for Myoelectric Control Employing Task-Specific Muscle Synergies. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2016, 24, 98-108.	4.9	45
5	A Method for Locomotion Mode Identification Using Muscle Synergies. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017, 25, 608-617.	4.9	41
6	Stabilizing PID Controllers for a Single-Link Biomechanical Model with Position, Velocity, and Force Feedback. <i>Journal of Biomechanical Engineering</i> , 2004, 126, 838-843.	1.3	38
7	The effect of intertalker speech rate variation on acoustic vowel space. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 1074.	1.1	32
8	PID controller tuning for the first-order-plus-dead-time process model via Hermite-Biehler theorem. <i>ISA Transactions</i> , 2005, 44, 363-378.	5.7	28
9	Synthesis of Angular Profiles for Bipedal Sit-to-Stand Movement. <i>System Theory, Proceedings of the Southeastern Symposium on</i> , 2008, , .	0.0	19
10	A Novel Theoretical Framework for the Dynamic Stability Analysis, Movement Control, and Trajectory Generation in a Multisegment Biomechanical Model. <i>Journal of Biomechanical Engineering</i> , 2009, 131, 011002.	1.3	18
11	Identification of coherent groups of generators based on synchronization coefficient. , 2016, , .		17
12	Modularity clustering based detection of coherent groups of generators with generator integrity indices. , 2017, , .		16
13	FLC-based PID controller tuning for sensorless speed control of DC motor. , 2018, , .		15
14	Physiological LQR Design for Postural Control Coordination of Sit-to-Stand Movement. <i>Cognitive Computation</i> , 2012, 4, 549-562.	5.2	12
15	An improved SPSA algorithm for system identification using fuzzy rules for training neural networks. <i>International Journal of Automation and Computing</i> , 2011, 8, 333-339.	4.5	11
16	Multi-layer spectral clustering approach to intentional islanding in bulk power systems. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019, 7, 1044-1055.	5.4	11
17	Alteration of muscle synergy structure while walking under increased postural constraints. <i>Cognitive Computation and Systems</i> , 2020, 2, 50-56.	1.4	11
18	3D Bipedal Model With Holonomic Constraints for the Decoupled Optimal Controller Design of the Biomechanical Sit-to-Stand Maneuver. <i>Journal of Biomechanical Engineering</i> , 2010, 132, 041010.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Mechanisms and models of postural stability and control. , 2011, 2011, 7837-40.		10
20	Real-Time Integrity Indices in Power Grid: A Synchronization Coefficient Based Clustering Approach. , 2018, , .		10
21	Bipedal modeling and decoupled optimal control design of biomechanical sit-to-stand transfer. , 2008, , .		9
22	Active control vs. passive stiffness in posture and movement coordination. , 2007, , .		7
23	3D bipedal model for biomechanical sit-to-stand movement with coupled torque optimization and experimental analysis. , 2010, , .		7
24	Muscle activity detection from myoelectric signals based on the AR-GARCH model. , 2012, , .		7
25	Fuzzy optimal control of sit-to-stand movement in a biomechanical model. Journal of Intelligent and Fuzzy Systems, 2013, 25, 247-258.	1.4	7
26	Facilitating push-off propulsion: A biomechanical model of ankle robotics assistance for plantarflexion gait training in stroke. , 2014, , .		7
27	Wind turbine transient response and fault ride-through improvements with optimal control. International Transactions on Electrical Energy Systems, 2017, 27, e2412.	1.9	7
28	Proficiencyâ€based recruitment of muscle synergies in a highly perturbed walking task (slackline). Engineering Reports, 2020, 2, e12253.	1.7	7
29	Fuzzy reduced order observer-controller design for biomechanical sit-to-stand movement. , 2016, , .		6
30	Gait Phase Discrimination during Kinematically Constrained Walking on Slackline. , 2019, , .		6
31	Optimal time-varying postural control in a single-link neuromechanical model with feedback latencies. Biological Cybernetics, 2020, 114, 485-497.	1.3	6
32	A Perspective on Muscle Synergies and Different Theories Related to Their Adaptation. Biomechanics, 2021, 1, 253-263.	1.2	6
33	Human Bipedal Biomechanical Modeling with Maple DynaFlexPro. , 0, , .		5
34	Neural drive estimation using the hypothesis of muscle synergies and the state-constrained Kalman filter. , 2013, , .		5
35	A Review of EMG Techniques for Detection of Gait Disorders. , 0, , .		5
36	KINEMATIC TRAJECTORY GENERATION IN A NEUROMUSCULOSKELETAL MODEL WITH SOMATOSENSORY AND VESTIBULAR FEEDBACK. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 363-368.	0.4	4

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37	Physiological Cost Optimization for Sit-to-Stand Transfer. , 2007, , .		4
38	Fuzzy biomechanical sit-to-stand movement with physiological feedback latencies. , 2010, , .		4
39	Linear decoupling controllers for constrained dynamic systems. International Journal of Control, 1994, 60, 607-616.	1.9	3
40	Author's response Journal of Biomechanics - Volume 34, Issue 6. Journal of Biomechanics, 2001, 34, 833.	2.1	1
41	Biodynamic Modeling and Simulation of Multistage Cell Mutations. DNA and Cell Biology, 2004, 23, 625-633.	1.9	1
42	MODELLING AND ANALYSIS PHYSIOLOGICAL MOTOR CONTROL USING BOND GRAPH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 393-398.	0.4	1
43	Budget Allocation for Power Networks Reliability Improvement: Game-Theoretic Approach. , 2019, , .		1
44	Controller Design for an Inverted-Pendulum Model of Postural Balance with Delayed Proprioceptive Feedback. , 2020, , .		1
45	Automatic seizure detection with different time delays using SDFT and time-domain feature extraction. Journal of Biomedical Research, 2022, 36, 48.	1.6	1
46	9.1.2 Structuring a Systems Engineering Program at UALR. IncoSE International Symposium, 2002, 12, 343-350.	0.6	0
47	H _∞ controller synthesis for a physiological motor control system modeled with bond graphs. , 2006, , .		0
48	Biomechanical bipedal model with asymmetrical reference trajectories for sit-to-stand task. , 2008, , .		0
49	Noninvasive breast tumor localization based on ultrawideband microwave backscatter. , 2010, , .		0
50	A study of Doubly Fed Induction Generator's low voltage ride through capabilities. , 2013, , .		0
51	State Feedback Sliding Mode Control Law Design for Grid-Connected Wind Turbine Model. , 2019, , .		0
52	Optimal Regulation of Postural Movements in a Biomechanical Model with Feedback Latencies. , 2020, , .		0
53	Characterization of Muscle Fatigue in Diabetic Patients with Peripheral Neuropathy. , 2022, , .		0