

Kamran Iqbal

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1617021/publications.pdf>

Version: 2024-02-01

53
papers

759
citations

840776

11
h-index

610901

24
g-index

53
all docs

53
docs citations

53
times ranked

647
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic seizure detection with different time delays using SDFT and time-domain feature extraction. Journal of Biomedical Research, 2022, 36, 48.	1.6	1
2	Characterization of Muscle Fatigue in Diabetic Patients with Peripheral Neuropathy. , 2022, , .		0
3	A Perspective on Muscle Synergies and Different Theories Related to Their Adaptation. Biomechanics, 2021, 1, 253-263.	1.2	6
4	Proficiencyâ€based recruitment of muscle synergies in a highly perturbed walking task (slackline). Engineering Reports, 2020, 2, e12253.	1.7	7
5	Optimal time-varying postural control in a single-link neuromechanical model with feedback latencies. Biological Cybernetics, 2020, 114, 485-497.	1.3	6
6	Alteration of muscle synergy structure while walking under increased postural constraints. Cognitive Computation and Systems, 2020, 2, 50-56.	1.4	11
7	Optimal Regulation of Postural Movements in a Biomechanical Model with Feedback Latencies. , 2020, , .		0
8	Controller Design for an Inverted-Pendulum Model of Postural Balance with Delayed Proprioceptive Feedback. , 2020, , .		1
9	State Feedback Sliding Mode Control Law Design for Grid-Connected Wind Turbine Model. , 2019, , .		0
10	Multi-layer spectral clustering approach to intentional islanding in bulk power systems. Journal of Modern Power Systems and Clean Energy, 2019, 7, 1044-1055.	5.4	11
11	Budget Allocation for Power Networks Reliability Improvement: Game-Theoretic Approach. , 2019, , .		1
12	Gait Phase Discrimination during Kinematically Constrained Walking on Slackline. , 2019, , .		6
13	Real-Time Integrity Indices in Power Grid: A Synchronization Coefficient Based Clustering Approach. , 2018, , .		10
14	A Systematic Review on Muscle Synergies: From Building Blocks of Motor Behavior to a Neurorehabilitation Tool. Applied Bionics and Biomechanics, 2018, 2018, 1-15.	1.1	66
15	FLC-based PID controller tuning for sensorless speed control of DC motor. , 2018, , .		15
16	Wind turbine transient response and fault ride-through improvements with optimal control. International Transactions on Electrical Energy Systems, 2017, 27, e2412.	1.9	7
17	A Method for Locomotion Mode Identification Using Muscle Synergies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2017, 25, 608-617.	4.9	41
18	Modularity clustering based detection of coherent groups of generators with generator integrity indices. , 2017, , .		16

#	ARTICLE	IF	CITATIONS
19	Fuzzy reduced order observer-controller design for biomechanical sit-to-stand movement. , 2016, , .		6
20	Identification of coherent groups of generators based on synchronization coefficient. , 2016, , .		17
21	Real-Time Task Discrimination for Myoelectric Control Employing Task-Specific Muscle Synergies. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2016, 24, 98-108.	4.9	45
22	Facilitating push-off propulsion: A biomechanical model of ankle robotics assistance for plantarflexion gait training in stroke. , 2014, , .		7
23	A study of Doubly Fed Induction Generator's low voltage ride through capabilities. , 2013, , .		0
24	Neural drive estimation using the hypothesis of muscle synergies and the state-constrained Kalman filter. , 2013, , .		5
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	Physiological LQR Design for Postural Control Coordination of Sit-to-Stand Movement. Cognitive Computation, 2012, 4, 549-562.	5.2	12
27	Muscle activity detection from myoelectric signals based on the AR-GARCH model. , 2012, , .		7
28	Mechanisms and models of postural stability and control. , 2011, 2011, 7837-40.		10
29	An improved SPSA algorithm for system identification using fuzzy rules for training neural networks. International Journal of Automation and Computing, 2011, 8, 333-339.	4.5	11
30	Noninvasive breast tumor localization based on ultrawideband microwave backscatter. , 2010, , .		0
31	3D Bipedal Model With Holonomic Constraints for the Decoupled Optimal Controller Design of the Biomechanical Sit-to-Stand Maneuver. Journal of Biomechanical Engineering, 2010, 132, 041010.	1.3	10
32	Fuzzy biomechanical sit-to-stand movement with physiological feedback latencies. , 2010, , .		4
33	3D bipedal model for biomechanical sit-to-stand movement with coupled torque optimization and experimental analysis. , 2010, , .		7
34	A Novel Theoretical Framework for the Dynamic Stability Analysis, Movement Control, and Trajectory Generation in a Multisegment Biomechanical Model. Journal of Biomechanical Engineering, 2009, 131, 011002.	1.3	18
35	Bipedal modeling and decoupled optimal control design of biomechanical sit-to-stand transfer. , 2008, , .		9
36	Biomechanical bipedal model with asymmetrical reference trajectories for sit-to-stand task. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
37	Synthesis of Angular Profiles for Bipedal Sit-to-Stand Movement. System Theory, Proceedings of the Southeastern Symposium on, 2008, , .	0.0	19
38	Physiological Cost Optimization for Sit-to-Stand Transfer. , 2007, , .		4
39	Active control vs. passive stiffness in posture and movement coordination. , 2007, , .		7
40	H<inf>∞</inf> controller synthesis for a physiological motor control system modeled with bond graphs. , 2006, , .		0
41	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
42	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
43	The effect of intertalker speech rate variation on acoustic vowel space. Journal of the Acoustical Society of America, 2006, 119, 1074.	1.1	32
44	PID controller tuning for the first-order-plus-dead-time process model via Hermite-Biehler theorem. ISA Transactions, 2005, 44, 363-378.	5.7	28
45	Biodynamic Modeling and Simulation of Multistage Cell Mutations. DNA and Cell Biology, 2004, 23, 625-633.	1.9	1
46	Stabilizing PID Controllers for a Single-Link Biomechanical Model with Position, Velocity, and Force Feedback. Journal of Biomechanical Engineering, 2004, 126, 838-843.	1.3	38
47	9.1.2 Structuring a Systems Engineering Program at UALR. Incose International Symposium, 2002, 12, 343-350.	0.6	0
48	Author's response Journal of Biomechanics - Volume 34, Issue 6. Journal of Biomechanics, 2001, 34, 833.	2.1	1
49	Predicted region of stability for balance recovery:. Journal of Biomechanics, 2000, 33, 1619-1627.	2.1	93
50	Simulated movement termination for balance recovery: can movement strategies be sought to maintain stability in the presence of slipping or forced sliding?. Journal of Biomechanics, 1999, 32, 779-786.	2.1	138
51	Linear decoupling controllers for constrained dynamic systems. International Journal of Control, 1994, 60, 607-616.	1.9	3
52	Human Bipedal Biomechanical Modeling with Maple DynaFlexPro. , 0, , .		5
53	A Review of EMG Techniques for Detection of Gait Disorders. , 0, , .		5