

Ramana Vinjamuri

List of Publications by Year in descending order

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34
papers

943
citations

623699

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docs citations

35
times ranked

1193
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Synergies of Multidigit Hand Prehension. <i>Sensors</i> , 2022, 22, 4177.	3.8	3
2	Reconstructing Synergy-Based Hand Grasp Kinematics from Electroencephalographic Signals. <i>Sensors</i> , 2022, 22, 5349.	3.8	4
3	Generalizability of Hand Kinematic Synergies derived using Independent Component Analysis. , 2021, 2021, 621-624.		2
4	Neural Decoding of Upper Limb Movements Using Electroencephalography. <i>Springer Briefs in Electrical and Computer Engineering</i> , 2020, , 25-33.	0.5	1
5	HERCULES: A Three Degree-of-Freedom Pneumatic Upper Limb Exoskeleton for Stroke Rehabilitation*. , 2020, 2020, 4959-4962.		3
6	Introductory Chapter: Methods and Applications of Neural Signal Processing. , 2020, , .		1
7	Design of a Soft Glove-Based Robotic Hand Exoskeleton with Embedded Synergies. , 2020, , 71-87.		6
8	Dynamic Control of Virtual Hand Grasp Using Spatiotemporal Synergies. <i>IEEE Access</i> , 2019, 7, 112327-112338.	4.2	4
9	Myoelectric Control of a Soft Hand Exoskeleton Using Kinematic Synergies. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2019, 13, 1351-1361.	4.0	34
10	Neural Decoding of Synergy-Based Hand Movements Using Electroencephalography. <i>IEEE Access</i> , 2019, 7, 18155-18163.	4.2	14
11	Decoding Asynchronous Reaching in Electroencephalography Using Stacked Autoencoders. <i>IEEE Access</i> , 2018, 6, 52889-52898.	4.2	16
12	Biometrics Based on Hand Synergies and Their Neural Representations. <i>IEEE Access</i> , 2017, 5, 13422-13429.	4.2	13
13	Towards a wearable hand exoskeleton with embedded synergies. , 2017, 2017, 213-216.		18
14	Low-Dimensional Synergistic Representation of Bilateral Reaching Movements. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 2.	4.1	18
15	Synergy Repetition Training versus Task Repetition Training in Acquiring New Skill. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 9.	4.1	17
16	Hand Grasping Synergies As Biometrics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017, 5, 26.	4.1	13
17	Effect of visual and tactile feedback on kinematic synergies in the grasping hand. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1217-1227.	2.8	9
18	Candidates for Synergies: Linear Discriminants versus Principal Components. <i>Computational Intelligence and Neuroscience</i> , 2014, 2014, 1-10.	1.7	16

#	ARTICLE	IF	CITATIONS
19	Motor-related brain activity during action observation: a neural substrate for electrocorticographic brain-computer interfaces after spinal cord injury. <i>Frontiers in Integrative Neuroscience</i> , 2014, 8, 17.	2.1	23
20	Design and implementation of a human ECoG simulator for testing brain-machine interfaces. , 2013, , .		1
21	An Electrocorticographic Brain Interface in an Individual with Tetraplegia. <i>PLoS ONE</i> , 2013, 8, e55344.	2.5	319
22	Toward Synergy-Based Brain-Machine Interfaces. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2011, 15, 726-736.	3.2	33
23	Dimensionality Reduction in Control and Coordination of the Human Hand. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 284-295.	4.2	62
24	Temporal Postural Synergies of the Hand in Rapid Grasping Tasks. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2010, 14, 986-994.	3.2	41
25	Quantizing and characterizing the variance of hand postures in a novel transformation task. , 2009, 2009, 5312-5.		3
26	Extraction of Sources of Tremor in Hand Movements of Patients With Movement Disorders. <i>IEEE Transactions on Information Technology in Biomedicine</i> , 2009, 13, 49-56.	3.2	21
27	Inherent bimanual postural synergies in hands. , 2008, 2008, 5093-6.		12
28	Time-Varying Synergies in Velocity Profiles of Finger Joints of the Hand during Reach and Grasp. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 4846-9.	0.5	23
29	Fuzzy logic modeling of EIS measurements on lithium-ion batteries. <i>Electrochimica Acta</i> , 2006, 51, 1673-1679.	5.2	49
30	Design and implementation of a fuzzy logic-based state-of-charge meter for Li-ion batteries used in portable defibrillators. <i>Journal of Power Sources</i> , 2006, 162, 829-836.	7.8	149
31	Limitations of Surface EMG Signals of Extrinsic Muscles in Predicting Postures of Human Hand. , 2006, 2006, 5491-4.		13
32	Limitations of Surface EMG Signals of Extrinsic Muscles in Predicting Postures of Human Hand. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006, , .	0.5	0
33	Application of Linear and Nonlinear Dimensionality Reduction Methods. , 0, , .		1
34	Introductory Chapter: Toward Near-Natural Assistive Devices. , 0, , .		0