

Salvatore Sessa

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

847
citations

840776

11
h-index

713466

21
g-index

71
all docs

71
docs citations

71
times ranked

938
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Simultaneously Performed Dual-Task Training with Aerobic Exercise and Working Memory Training on Cognitive Functions and Neural Systems in the Elderly. <i>Neural Plasticity</i> , 2020, 2020, 1-17.	2.2	17
2	Design and evaluation of a robot limb for table key playing on humanoid saxophonist robot. , 2019, , .		1
3	Group emotion recognition strategies for entertainment robots. , 2018, , .		31
4	Evaluation of a Sensor System for Detecting Humans Trapped under Rubble: A Pilot Study. <i>Sensors</i> , 2018, 18, 852.	3.8	19
5	A Novel Algorithm for Determining the Contextual Characteristics of Movement Behaviors by Combining Accelerometer Features and Wireless Beacons: Development and Implementation. <i>JMIR MHealth and UHealth</i> , 2018, 6, e100.	3.7	10
6	Step Sequence and Direction Detection of Four Square Step Test. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 2194-2200.	5.1	4
7	Anatomical Calibration through Post-Processing of Standard Motion Tests Data. <i>Sensors</i> , 2016, 16, 2011.	3.8	14
8	Facial Expression Design for the Saxophone Player Robot WAS-4. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2016, , 259-266.	0.6	3
9	Modeling and simulation for support robot tracking a human sit to stand motion. , 2016, , .		10
10	Automatic segmentation for one leg stance test with inertial measurement unit. , 2016, , .		1
11	The development of intraoral pressure control system on humanoid saxophone playing robot. , 2016, , .		4
12	Quantitative Laughter Detection, Measurement, and Classificationâ€”A Critical Survey. <i>IEEE Reviews in Biomedical Engineering</i> , 2016, 9, 148-162.	18.0	24
13	Design of a wearable device for low frequency haptic stimulation. , 2015, , .		2
14	Angular sway propagation in One Leg Stance and quiet stance with Inertial Measurement Units for older adults. , 2015, 2015, 6955-8.		2
15	Reliability of the step phase detection using inertial measurement units: pilot study. <i>Healthcare Technology Letters</i> , 2015, 2, 58-63.	3.3	9
16	Automatic discrimination of laughter using distributed sEMG. , 2015, , .		2
17	Objective evaluation of oral presentation skills using Inertial Measurement Units. , 2015, 2015, 3117-20.		1
18	Development of subliminal persuasion system to improve the upper limb posture in laparoscopic training: a preliminary study. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2015, 10, 1863-1871.	2.8	7

#	ARTICLE	IF	CITATIONS
19	Application of wireless inertial measurement units and EMG sensors for studying deglutition — Preliminary results. , 2014, 2014, 5381-4.		7
20	Balance analysis of one leg stance for older adults with Inertial Measurement Units. , 2014, , .		1
21	Development of a nerve model of eyeball motion nerves to simulate the disorders of eyeball movements for neurologic examination training. , 2014, , .		0
22	Development of a human-like motor nerve model to simulate the diseases effects on muscle tension for neurologic examination training. , 2014, , .		4
23	Development of new muscle contraction sensor to replace sEMG for using in muscles analysis fields. , 2014, 2014, 6945-8.		4
24	Sit to stand sensing using wearable IMUs based on adaptive Neuro Fuzzy and Kalman Filter. , 2014, , .		9
25	Natural humanâ€“robot musical interaction: understanding the music conductor gestures by using the WB-4 inertial measurement system. Advanced Robotics, 2014, , 1-12.	1.8	10
26	ANFIS based Jacobian for a parallel manipulator mobility assistive device. , 2014, , .		13
27	Objective skill evaluation of endotracheal intubation using muscle contraction sensor. , 2014, , .		0
28	Discussion on PBL Class from View Point of Difference of Learning Style between Undergraduate and Graduate Students in Egypt. Journal of Jsee, 2014, 62, 5_45-5_49.	0.0	0
29	A Methodology for the Performance Evaluation of Inertial Measurement Units. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 71, 143-157.	3.4	52
30	Development of a real-time IMU-based motion capture system for gait rehabilitation. , 2013, , .		28
31	Use of an ultra-miniaturized IMU-based motion capture system for objective evaluation and assessment of walking skills. , 2013, 2013, 4883-6.		7
32	ANFIS-based Sensor Fusion System of Sit- to- stand for Elderly People Assistive Device Protocols. International Journal of Automation and Computing, 2013, 10, 405-413.	4.5	27
33	Objective Skill Evaluation for Laparoscopic Training Based on Motion Analysis. IEEE Transactions on Biomedical Engineering, 2013, 60, 977-985.	4.2	50
34	Walking assessment in the phase space by using ultra-miniaturized Inertial Measurement Units. , 2013, , .		5
35	Development of a head robot with facial expression for training on neurological disorders. , 2013, , .		7
36	A novel approach to evaluate skills in Endotracheal Intubation using biomechanical measurement system. , 2013, , .		3

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37	Human-humanoid robot social interaction: Laughter. , 2013, , .		8
38	Design of a wireless miniature low cost EMG sensor using gold plated dry electrodes for biomechanics research. , 2013, , .		21
39	Toward multi-stage decoupled visual SLAM system. , 2013, , .		0
40	Development of parallel manipulator sit to stand assistive device for elderly people. , 2013, , .		11
41	Towards culture-specific robot customisation: A study on greeting interaction with Egyptians. , 2013, , .		15
42	Cross-cultural study on human-robot greeting interaction: acceptance and discomfort by Egyptians and Japanese. Paladyn, 2013, 4, .	2.7	43
43	Biomechanical evaluation of the phases during simulated Endotracheal Intubation (ETI): Pilot study on the effect of different laryngoscopes. , 2013, 2013, 4887-90.		2
44	Development of a human-like neurologic model to simulate the influences of diseases for neurologic examination training. , 2013, , .		10
45	Performance evaluation of the wireless inertial measurement unit WB-4 with magnetic field calibration. , 2012, , .		3
46	Biomechanical analysis of induced mental stress in laparoscopy surgical training by surface Electromyography. , 2012, , .		1
47	Online magnetic calibration of a cutting edge 9-axis wireless Inertial Measurement Unit. International Journal of Applied Electromagnetics and Mechanics, 2012, 39, 779-785.	0.6	4
48	Wavelet thresholding technique for sEMG denoising by baseline estimation. International Journal of Computer Aided Engineering and Technology, 2012, 4, 517.	0.2	7
49	Musical robots: Towards a natural joint performance. , 2012, , .		4
50	Music conductor gesture recognition by using inertial measurement system for human-robot musical interaction. , 2012, , .		3
51	Assessment of walking quality by using Inertial Measurement Units. , 2012, , .		5
52	Gait Phase Detection Using Foot Acceleration for Estimating Ground Reaction Force in Long Distance Gait Rehabilitation. Journal of Robotics and Mechatronics, 2012, 24, 828-837.	1.0	7
53	Surface EMG and heartbeat analysis preliminary results in surgical training: Dry boxes and live tissue. , 2011, 2011, 1113-6.		2
54	Development of the wireless ultra-miniaturized inertial measurement unit WB-4: Preliminary performance evaluation. , 2011, 2011, 6927-30.		25

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55	Towards Miniaturization of a MEMS-Based Wearable Motion Capture System. IEEE Transactions on Industrial Electronics, 2011, 58, 3234-3241.	7.9	181
56	Waseda Bioinstrumentation system WB-3 as a wearable tool for objective laparoscopic skill evaluation. , 2011, , .		10
57	Baseline Adaptive Wavelet Thresholding Technique for sEMG Denoising. , 2011, , .		7
58	Depth-enhanced mobile robot teleguide based on laser images. Mechatronics, 2010, 20, 739-750.	3.3	18
59	Objective evaluation of laparoscopic surgical skills using Waseda bioinstrumentation system WB-3. , 2010, , .		3
60	Objective skill analysis and assessment of neurosurgery by using the waseda bioinstrumentation system WB-3. , 2009, , .		1
61	Objective skill analysis and assessment in neurosurgery by using an ultra-miniaturized inertial measurement unit WB-3 — Pilot tests —. , 2009, 2009, 2320-3.		6
62	Waseda Bioinstrumentation System #3 as a tool for objective rehabilitation measurement and assessment - Development of the inertial measurement unit -. , 2009, , .		10
63	Waseda Bioinstrumentation system WB-2R as a wearable tool for an objective analysis of surgeon's performance. , 2009, , .		7
64	Development of the Ultra-Miniaturized Inertial Measurement Unit WB3 for Objective Skill Analysis and Assessment in Neurosurgery: Preliminary Results. Lecture Notes in Computer Science, 2009, 12, 443-450.	1.3	7
65	1A1-L08 Objective Skill Analysis and Assessment in Neurosurgery by Using the Waseda Bioinstrumentation System WB-3 : Pilot tests. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2009, 2009, _1A1-L08_1-_1A1-L08_4.	0.0	0
66	Mobile robotic teleguide based on video images. IEEE Robotics and Automation Magazine, 2008, 15, 58-67.	2.0	24
67	A Mixed Terrestrial Aerial Robotic Platform for Volcanic and Industrial Surveillance. , 2007, , .		7
68	AN APPROACH TO GLOBAL LOCALIZATION PROBLEM USING MEAN SHIFT ALGORITHM. , 2007, , .		0
69	Simulator for Locomotion Control of the Alicia3 Climbing Robot. , 2006, , 843-850.		5
70	A new global localization algorithm based on feature extraction and particle filter. , 2006, , .		2