

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	Towards Miniaturization of a MEMS-Based Wearable Motion Capture System. IEEE Transactions on Industrial Electronics, 2011, 58, 3234-3241.	7.9	181
2	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
3	Objective Skill Evaluation for Laparoscopic Training Based on Motion Analysis. IEEE Transactions on Biomedical Engineering, 2013, 60, 977-985.	4.2	50
4	Cross-cultural study on human-robot greeting interaction: acceptance and discomfort by Egyptians and Japanese. Paladyn, 2013, 4, .	2.7	43
5	Group emotion recognition strategies for entertainment robots. , 2018, , .		31
6	Development of a real-time IMU-based motion capture system for gait rehabilitation. , 2013, , .		28
7	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
8	Development of the wireless ultra-miniaturized inertial measurement unit WB-4: Preliminary performance evaluation. , 2011, 2011, 6927-30.		25
9	Mobile robotic teleguide based on video images. IEEE Robotics and Automation Magazine, 2008, 15, 58-67.	2.0	24
10	Quantitative Laughter Detection, Measurement, and Classification—A Critical Survey. IEEE Reviews in Biomedical Engineering, 2016, 9, 148-162.	18.0	24
11	Design of a wireless miniature low cost EMG sensor using gold plated dry electrodes for biomechanics research. , 2013, , .		21
12	Evaluation of a Sensor System for Detecting Humans Trapped under Rubble: A Pilot Study. Sensors, 2018, 18, 852.	3.8	19
13	Depth-enhanced mobile robot teleguide based on laser images. Mechatronics, 2010, 20, 739-750.	3.3	18
14	Effects of Simultaneously Performed Dual-Task Training with Aerobic Exercise and Working Memory Training on Cognitive Functions and Neural Systems in the Elderly. Neural Plasticity, 2020, 2020, 1-17.	2.2	17
15	Towards culture-specific robot customisation: A study on greeting interaction with Egyptians. , 2013, , .		15
16	Anatomical Calibration through Post-Processing of Standard Motion Tests Data. Sensors, 2016, 16, 2011.	3.8	14
17	ANFIS based Jacobian for a parallel manipulator mobility assistive device. , 2014, , .		13
18	Development of parallel manipulator sit to stand assistive device for elderly people. , 2013, , .		11

#	ARTICLE	IF	CITATIONS
19	Waseda Bioinstrumentation System #3 as a tool for objective rehabilitation measurement and assessment - Development of the inertial measurement unit -. , 2009, , .		10
20	Waseda Bioinstrumentation system WB-3 as a wearable tool for objective laparoscopic skill evaluation. , 2011, , .		10
21	Development of a human-like neurologic model to simulate the influences of diseases for neurologic examination training. , 2013, , .		10
22	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
23	Modeling and simulation for support robot tracking a human sit to stand motion. , 2016, , .		10
24	A Novel Algorithm for Determining the Contextual Characteristics of Movement Behaviors by Combining Accelerometer Features and Wireless Beacons: Development and Implementation. JMIR MHealth and UHealth, 2018, 6, e100.	3.7	10
25	Sit to stand sensing using wearable IMUs based on adaptive Neuro Fuzzy and Kalman Filter. , 2014, , .		9
26	Reliability of the step phase detection using inertial measurement units: pilot study. Healthcare Technology Letters, 2015, 2, 58-63.	3.3	9
27	Human-humanoid robot social interaction: Laughter. , 2013, , .		8
28	A Mixed Terrestrial Aerial Robotic Platform for Volcanic and Industrial Surveillance. , 2007, , .		7
29	Waseda Bioinstrumentation system WB-2R as a wearable tool for an objective analysis of surgeon's performance. , 2009, , .		7
30	Baseline Adaptive Wavelet Thresholding Technique for sEMG Denoising. , 2011, , .		7
31	Wavelet thresholding technique for sEMG denoising by baseline estimation. International Journal of Computer Aided Engineering and Technology, 2012, 4, 517.	0.2	7
32	Use of an ultra-miniaturized IMU-based motion capture system for objective evaluation and assessment of walking skills. , 2013, 2013, 4883-6.		7
33	Development of a head robot with facial expression for training on neurological disorders. , 2013, , .		7
34	Application of wireless inertial measurement units and EMG sensors for studying deglutition — Preliminary results. , 2014, 2014, 5381-4.		7
35	Development of subliminal persuasion system to improve the upper limb posture in laparoscopic training: a preliminary study. International Journal of Computer Assisted Radiology and Surgery, 2015, 10, 1863-1871.	2.8	7
36	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

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37	Gait Phase Detection Using Foot Acceleration for Estimating Ground Reaction Force in Long Distance Gait Rehabilitation. <i>Journal of Robotics and Mechatronics</i> , 2012, 24, 828-837.	1.0	7
38	Objective skill analysis and assessment in neurosurgery by using an ultra-miniaturized inertial measurement unit WB-3 — Pilot tests —. , 2009, 2009, 2320-3.		6
39	Simulator for Locomotion Control of the Alicia3 Climbing Robot. , 2006, , 843-850.		5
40	Assessment of walking quality by using Inertial Measurement Units. , 2012, , .		5
41	Walking assessment in the phase space by using ultra-miniaturized Inertial Measurement Units. , 2013, , .		5
42	Online magnetic calibration of a cutting edge 9-axis wireless Inertial Measurement Unit. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012, 39, 779-785.	0.6	4
43	Musical robots: Towards a natural joint performance. , 2012, , .		4
44	Development of a human-like motor nerve model to simulate the diseases effects on muscle tension for neurologic examination training. , 2014, , .		4
45	Development of new muscle contraction sensor to replace sEMG for using in muscles analysis fields. , 2014, 2014, 6945-8.		4
46	The development of intraoral pressure control system on humanoid saxophone playing robot. , 2016, , .		4
47	Step Sequence and Direction Detection of Four Square Step Test. <i>IEEE Robotics and Automation Letters</i> , 2017, 2, 2194-2200.	5.1	4
48	Objective evaluation of laparoscopic surgical skills using Waseda bioinstrumentation system WB-3. , 2010, , .		3
49	Performance evaluation of the wireless inertial measurement unit WB-4 with magnetic field calibration. , 2012, , .		3
50	Music conductor gesture recognition by using inertial measurement system for human-robot musical interaction. , 2012, , .		3
51	A novel approach to evaluate skills in Endotracheal Intubation using biomechanical measurement system. , 2013, , .		3
52	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
53	A new global localization algorithm based on feature extraction and particle filter. , 2006, , .		2
54	Surface EMG and heartbeat analysis preliminary results in surgical training: Dry boxes and live tissue. , 2011, 2011, 1113-6.		2

#	ARTICLE	IF	CITATIONS
55	Biomechanical evaluation of the phases during simulated Endotracheal Intubation (ETI): Pilot study on the effect of different laryngoscopes. , 2013, 2013, 4887-90.		2
56	Design of a wearable device for low frequency haptic stimulation. , 2015, , .		2
57	Angular sway propagation in One Leg Stance and quiet stance with Inertial Measurement Units for older adults. , 2015, 2015, 6955-8.		2
58	Automatic discrimination of laughter using distributed sEMG. , 2015, , .		2
59	Objective skill analysis and assessment of neurosurgery by using the waseda bioinstrumentation system WB-3. , 2009, , .		1
60	Biomechanical analysis of induced mental stress in laparoscopy surgical training by surface Electromyography. , 2012, , .		1
61	Balance analysis of one leg stance for older adults with Inertial Measurement Units. , 2014, , .		1
62	Objective evaluation of oral presentation skills using Inertial Measurement Units. , 2015, 2015, 3117-20.		1
63	Automatic segmentation for one leg stance test with inertial measurement unit. , 2016, , .		1
64	Design and evaluation of a robot limb for table key playing on humanoid saxophonist robot. , 2019, , .		1
65	AN APPROACH TO GLOBAL LOCALIZATION PROBLEM USING MEAN SHIFT ALGORITHM. , 2007, , .		0
66	Toward multi-stage decoupled visual SLAM system. , 2013, , .		0
67	Development of a nerve model of eyeball motion nerves to simulate the disorders of eyeball movements for neurologic examination training. , 2014, , .		0
68	Objective skill evaluation of endotracheal intubation using muscle contraction sensor. , 2014, , .		0
69	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
70	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