

Antonio Pedotti

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

3,055
citations

201575

27
h-index

206029

48
g-index

54
all docs

54
docs citations

54
times ranked

1718
citing authors

#	ARTICLE	IF	CITATIONS
1	Elite: A Digital Dedicated Hardware System for Movement Analysis Via Real-Time TV Signal Processing. IEEE Transactions on Biomedical Engineering, 1985, BME-32, 943-950.	2.5	502
2	Optoelectronic Plethysmography in Intensive Care Patients. American Journal of Respiratory and Critical Care Medicine, 2000, 161, 1546-1552.	2.5	397
3	A general computing method for the analysis of human locomotion. Journal of Biomechanics, 1975, 8, 307-320.	0.9	179
4	Evaluation of muscular moments at the lower limb joints by an on-line processing of kinematic data and ground reaction. Journal of Biomechanics, 1981, 14, 35-45.	0.9	179
5	Simple Equipment Used in Clinical Practice for Evaluation of Locomotion. IEEE Transactions on Biomedical Engineering, 1977, BME-24, 456-461.	2.5	163
6	Method for the analysis of posture and interface pressure of car drivers. Applied Ergonomics, 2002, 33, 511-522.	1.7	160
7	Compartmental Analysis of Breathing in the Supine and Prone Positions by Optoelectronic Plethysmography. Annals of Biomedical Engineering, 2001, 29, 60-70.	1.3	150
8	Motor strategies in landing from a jump: the role of skill in task execution. Experimental Brain Research, 1992, 90, 427-40.	0.7	100
9	Determinants of exercise performance in normal men with externally imposed expiratory flow limitation. Journal of Applied Physiology, 2002, 92, 1943-1952.	1.2	99
10	Respiratory muscle dynamics and control during exercise with externally imposed expiratory flow limitation. Journal of Applied Physiology, 2002, 92, 1953-1963.	1.2	74
11	Rib Cage Deformities Alter Respiratory Muscle Action and Chest Wall Function in Patients with Severe Osteogenesis Imperfecta. PLoS ONE, 2012, 7, e35965.	1.1	71
12	Lung recruitment assessed by total respiratory system input reactance. Intensive Care Medicine, 2009, 35, 2164-72.	3.9	66
13	Real-time three-dimensional motion analysis for patient positioning verification. Radiotherapy and Oncology, 2000, 54, 21-27.	0.3	62
14	Measurement of Total and Compartmental Lung Volume Changes in Newborns by Optoelectronic Plethysmography. Pediatric Research, 2010, 67, 11-16.	1.1	51
15	Concomitant ventilatory and circulatory functions of the diaphragm and abdominal muscles. Journal of Applied Physiology, 2010, 109, 1432-1440.	1.2	48
16	The Abdominal Circulatory Pump. PLoS ONE, 2009, 4, e5550.	1.1	47
17	Estimation of end-expiratory lung volume variations by optoelectronic plethysmography. Critical Care Medicine, 2001, 29, 1807-1811.	0.4	45
18	Changes in the mechanical properties of the respiratory system during the development of interstitial lung edema. Respiratory Research, 2008, 9, 51.	1.4	43

#	ARTICLE	IF	CITATIONS
19	Optimisation of positive end-expiratory pressure by forced oscillation technique in a lavage model of acute lung injury. <i>Intensive Care Medicine</i> , 2011, 37, 1021-30.	3.9	41
20	Chest wall mechanics during pressure support ventilation. <i>Critical Care</i> , 2006, 10, R54.	2.5	38
21	Home monitoring of within-breath respiratory mechanics by a simple and automatic forced oscillation technique device. <i>Physiological Measurement</i> , 2010, 31, N11-N24.	1.2	38
22	Static and dynamic postural control in long-term microgravity: evidence of a dual adaptation. <i>Journal of Applied Physiology</i> , 2001, 90, 205-215.	1.2	34
23	Real-Time Opto-Electronic Verification of Patient Position in Breast Cancer Radiotherapy. <i>Computer Aided Surgery</i> , 2000, 5, 296-306.	1.8	33
24	Integration of Enhanced Optical Tracking Techniques and Imaging in IGRT. <i>Journal of Radiation Research</i> , 2007, 48, A61-A74.	0.8	31
25	Long-term adaptation of postural control in microgravity. <i>Experimental Brain Research</i> , 1999, 128, 410-416.	0.7	30
26	Dosimetric effects within target and organs at risk of interfractional patient mispositioning in left breast cancer radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2004, 59, 861-871.	0.4	30
27	Monitoring the Temporal Changes of Respiratory Resistance: A Novel Test for the Management of Asthma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 185, 1330-1331.	2.5	28
28	3D optoelectronic analysis of interfractional patient setup variability in frameless extracranial stereotactic radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2006, 64, 635-642.	0.4	27
29	Patient set-up verification by infrared optical localization and body surface sensing in breast radiation therapy. <i>Radiotherapy and Oncology</i> , 2006, 79, 170-178.	0.3	26
30	Methodological and technological implications of quantitative human movement analysis in long term space flights. <i>Journal of Biomechanics</i> , 1999, 32, 431-436.	0.9	23
31	Voluntary head stabilisation in space during oscillatory trunk movements in the frontal plane performed before, during and after a prolonged period of weightlessness. <i>Experimental Brain Research</i> , 2001, 137, 170-179.	0.7	22
32	Positive end-expiratory pressure optimization with forced oscillation technique reduces ventilator induced lung injury: a controlled experimental study in pigs with saline lavage lung injury. <i>Critical Care</i> , 2011, 15, R126.	2.5	21
33	Biomechanical assessment of paraplegic locomotion with hip guidance orthosis (HGO). <i>Clinical Rehabilitation</i> , 1993, 7, 303-308.	1.0	19
34	Assessment of Dynamic Mechanical Properties of the Respiratory System During High-Frequency Oscillatory Ventilation*. <i>Critical Care Medicine</i> , 2013, 41, 2502-2511.	0.4	19
35	Optimizing positive end-expiratory pressure by oscillatory mechanics minimizes tidal recruitment and distension: an experimental study in a lavage model of lung injury. <i>Critical Care</i> , 2012, 16, R217.	2.5	18
36	Correlated Variability in the Breathing Pattern and End-Expiratory Lung Volumes in Conscious Humans. <i>PLoS ONE</i> , 2015, 10, e0116317.	1.1	17

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37	Intra-fraction setup variability: IR optical localization vs. X-ray imaging in a hypofractionated patient population. <i>Radiation Oncology</i> , 2011, 6, 38.	1.2	15
38	Absence of center of mass control for leg abduction in long-term weightlessness in humans. <i>Neuroscience Letters</i> , 2002, 319, 172-176.	1.0	14
39	Breathing Induced by Abdominal Muscle Stimulation in Individuals Without Spontaneous Ventilation. <i>Neuromodulation</i> , 2002, 5, 180-185.	0.4	12
40	Robust frameless stereotactic localization in extra-cranial radiotherapy. <i>Medical Physics</i> , 2006, 33, 1141-1152.	1.6	12
41	Quantitative analysis of motion control in long term $\frac{1}{4}$ -gravity. <i>Acta Astronautica</i> , 1998, 43, 131-151.	1.7	11
42	Motor coordination in weightless conditions revealed by long-term microgravity adaptation. <i>Acta Astronautica</i> , 2001, 49, 199-213.	1.7	11
43	Effects of posture and bronchoconstriction on low-frequency input and transfer impedances in humans. <i>Journal of Applied Physiology</i> , 2004, 97, 109-118.	1.2	11
44	Inverse dynamic investigation of voluntary trunk movements in weightlessness: a new microgravity-specific strategy. <i>Journal of Biomechanics</i> , 2003, 36, 1691-1700.	0.9	8
45	Inverse dynamic investigation of voluntary leg lateral movements in weightlessness: a new microgravity-specific strategy. <i>Journal of Biomechanics</i> , 2005, 38, 769-777.	0.9	8
46	PRESSURE DISTRIBUTION ON WHEELCHAIR CUSHIONS IN STATIC SITTING AND DURING MANUAL PROPULSION. <i>Journal of Mechanics in Medicine and Biology</i> , 2001, 01, 33-44.	0.3	6
47	Benefits of Six Degrees of Freedom for Optically Driven Patient Set-up Correction in SBRT. <i>Technology in Cancer Research and Treatment</i> , 2008, 7, 187-195.	0.8	6
48	Altered Astronaut Performance Following Spaceflight: Control and Modeling Insights. , 2000, , 282-291.		4
49	<title>Surface analysis by laser beam scanning and stereophotogrammetry</title>. , 1993, , .		3
50	Redundant System of Passive Markers for Ultrasound Scanhead Tracking. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 88-96.	2.5	2
51	Accessibility Simulation and Ergonomic Evaluation for Virtual Prototyping. , 0, , .		1
52	INFORMATION TECHNOLOGY IN ASSISTED SURGERY. Istituto Lombardo - Accademia Di Scienze E Lettere - Incontri Di Studio, 1970, , 81-92.	0.0	0
53	Moving Along: In biomechanics, rehabilitation engineering, and movement analysis, Italian researchers are making great strides.. <i>IEEE Pulse</i> , 2015, 6, 50-57.	0.1	0