

Pasi A Karjalainen

List of Publications by Citations

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119
papers

5,132
citations

29
h-index

71
g-index

134
ext. papers

6,130
ext. citations

2.9
avg, IF

5.42
L-index

#	Paper	IF	Citations
119	Kubios HRV--heart rate variability analysis software. <i>Computer Methods and Programs in Biomedicine</i> , 2014 , 113, 210-20	6.9	1248
118	An advanced detrending method with application to HRV analysis. <i>IEEE Transactions on Biomedical Engineering</i> , 2002 , 49, 172-5	5	686
117	Software for advanced HRV analysis. <i>Computer Methods and Programs in Biomedicine</i> , 2004 , 76, 73-81	6.9	480
116	Tikhonov regularization and prior information in electrical impedance tomography. <i>IEEE Transactions on Medical Imaging</i> , 1998 , 17, 285-93	11.7	343
115	Increased fMRI responses during encoding in mild cognitive impairment. <i>Neurobiology of Aging</i> , 2007 , 28, 1889-903	5.6	247
114	A Kalman filter approach to track fast impedance changes in electrical impedance tomography. <i>IEEE Transactions on Biomedical Engineering</i> , 1998 , 45, 486-93	5	129
113	Assessment of errors in static electrical impedance tomography with adjacent and trigonometric current patterns. <i>Physiological Measurement</i> , 1997 , 18, 289-303	2.9	119
112	Estimation of nonstationary EEG with Kalman smoother approach: an application to event-related synchronization (ERS). <i>IEEE Transactions on Biomedical Engineering</i> , 2004 , 51, 516-24	5	84
111	Novel parameters of surface EMG in patients with Parkinson's disease and healthy young and old controls. <i>Journal of Electromyography and Kinesiology</i> , 2009 , 19, e206-13	2.5	78
110	Electrical impedance tomography with basis constraints. <i>Inverse Problems</i> , 1997 , 13, 523-530	2.3	76
109	Heart rate variability in acute psychosis. <i>Psychophysiology</i> , 2003 , 40, 716-26	4.1	76
108	Perceived mental stress and reactions in heart rate variability--a pilot study among employees of an electronics company. <i>International Journal of Occupational Safety and Ergonomics</i> , 2008 , 14, 275-83	2.1	65
107	Surface EMG and acceleration signals in Parkinson's disease: feature extraction and cluster analysis. <i>Medical and Biological Engineering and Computing</i> , 2008 , 46, 849-58	3.1	63
106	Single-trial dynamical estimation of event-related potentials: a Kalman filter-based approach. <i>IEEE Transactions on Biomedical Engineering</i> , 2005 , 52, 1397-406	5	61
105	Effects of local skull inhomogeneities on EEG source estimation. <i>Medical Engineering and Physics</i> , 1999 , 21, 143-54	2.4	59
104	Time-varying analysis of heart rate variability signals with a Kalman smoother algorithm. <i>Physiological Measurement</i> , 2006 , 27, 225-39	2.9	57
103	The Relationship Between Spectral Changes in Heart Rate Variability and Fatigue. <i>Journal of Psychophysiology</i> , 2009 , 23, 143-151	1	56

102	Gait and muscle activation changes in men with knee osteoarthritis. <i>Knee</i> , 2010 , 17, 69-76	2.6	53
101	Subspace regularization method for the single-trial estimation of evoked potentials. <i>IEEE Transactions on Biomedical Engineering</i> , 1999 , 46, 849-60	5	45
100	Group-level variations in motor representation areas of thenar and anterior tibial muscles: Navigated Transcranial Magnetic Stimulation Study. <i>Human Brain Mapping</i> , 2010 , 31, 1272-80	5.9	43
99	Analysis of surface EMG signal morphology in Parkinson's disease. <i>Physiological Measurement</i> , 2007 , 28, 1507-21	2.9	42
98	State Estimation in Time-Varying Electrical Impedance Tomography. <i>Annals of the New York Academy of Sciences</i> , 1999 , 873, 430-439	6.5	37
97	Linear and nonlinear tremor acceleration characteristics in patients with Parkinson's disease. <i>Physiological Measurement</i> , 2012 , 33, 395-412	2.9	34
96	Reproducibility of loading measurements with skin-mounted accelerometers during walking. <i>Archives of Physical Medicine and Rehabilitation</i> , 2007 , 88, 907-15	2.8	34
95	Asynchronicity of facial blood perfusion in migraine. <i>PLoS ONE</i> , 2013 , 8, e80189	3.7	31
94	Relationship of P300 single-trial responses with reaction time and preceding stimulus sequence. <i>International Journal of Psychophysiology</i> , 2006 , 61, 244-52	2.9	31
93	Postural control and thigh muscle activity in men with knee osteoarthritis. <i>Journal of Electromyography and Kinesiology</i> , 2010 , 20, 1066-74	2.5	30
92	EMG signal morphology and kinematic parameters in essential tremor and Parkinson's disease patients. <i>Journal of Electromyography and Kinesiology</i> , 2014 , 24, 300-6	2.5	29
91	Non-Linear EMG Parameters for Differential and Early Diagnostics of Parkinson's Disease. <i>Frontiers in Neurology</i> , 2013 , 4, 135	4.1	29
90	Monitoring functional impairment and recovery after traumatic brain injury in rats by fMRI. <i>Journal of Neurotrauma</i> , 2013 , 30, 546-56	5.4	29
89	The effect of fMRI task combinations on determining the hemispheric dominance of language functions. <i>Neuroradiology</i> , 2012 , 54, 393-405	3.2	28
88	Dynamic time-varying analysis of heart rate and blood pressure variability in cats exposed to short-term chronic intermittent hypoxia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008 , 295, R28-37	3.2	28
87	Effects of nutritive and non-nutritive sucking on infant heart rate variability during the first 6 months of life. <i>Research in Social and Administrative Pharmacy</i> , 2007 , 30, 546-56	2.9	28
86	Analysis of galvanic skin responses with principal components and clustering techniques. <i>IEEE Transactions on Biomedical Engineering</i> , 2001 , 48, 1071-9	5	27
85	Analysis of EMG and acceleration signals for quantifying the effects of deep brain stimulation in Parkinson's disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2011 , 58, 2545-53	5	26

84	Estimation of event-related synchronization changes by a new TVAR method. <i>IEEE Transactions on Biomedical Engineering</i> , 1997 , 44, 649-56	5	24
83	Single-trial estimation of multichannel evoked-potential measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 2003 , 50, 189-96	5	24
82	Effects of electrode properties on EEG measurements and a related inverse problem. <i>Medical Engineering and Physics</i> , 2000 , 22, 535-45	2.4	24
81	Kinematic and kinetic changes in obese gait in bariatric surgery-induced weight loss. <i>Journal of Biomechanics</i> , 2012 , 45, 1769-74	2.9	23
80	How creditor rights affect the value of cash: A cross-country study. <i>Journal of Corporate Finance</i> , 2013 , 22, 278-298	3.7	21
79	Mouse ECG findings in aging, with conduction system affecting drugs and in cardiac pathologies: Development and validation of ECG analysis algorithm in mice. <i>Physiological Reports</i> , 2015 , 3, e12639	2.6	21
78	Heart rate variability dynamics during low-dose propofol and dexmedetomidine anesthesia. <i>Annals of Biomedical Engineering</i> , 2012 , 40, 1802-13	4.7	21
77	Analysis of dynamic voluntary muscle contractions in Parkinson's disease. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2280-8	5	20
76	R&D investments: The effects of different financial environments on firm profitability. <i>Journal of Multinational Financial Management</i> , 2008 , 18, 79-93	3.2	19
75	Simulation of nonstationary EEG. <i>Biological Cybernetics</i> , 1997 , 76, 349-56	2.8	18
74	Dynamic electrical impedance tomography - phantom studies. <i>Inverse Problems in Science and Engineering</i> , 2000 , 8, 495-510		18
73	Electroencephalogram reactivity to verbal command after dexmedetomidine, propofol and sevoflurane-induced unresponsiveness. <i>Anaesthesia</i> , 2015 , 70, 190-204	6.6	17
72	Signal features of surface electromyography in advanced Parkinson's disease during different settings of deep brain stimulation. <i>Clinical Neurophysiology</i> , 2015 , 126, 2290-8	4.3	15
71	Differences in heart rate variability of female nurses between and within normal and extended work shifts. <i>Industrial Health</i> , 2013 , 51, 154-64	2.5	15
70	Evaluation of the Effect of Bariatric Surgery-Induced Weight Loss on Knee Gait and Cartilage Degeneration. <i>Journal of Biomechanical Engineering</i> , 2018 , 140,	2.1	15
69	Non-invasive mapping of bilateral motor speech areas using navigated transcranial magnetic stimulation and functional magnetic resonance imaging. <i>Journal of Neuroscience Methods</i> , 2015 , 248, 32-40	3	14
68	Dynamic estimation of cardiac repolarization characteristics during hypoglycemia in healthy and diabetic subjects. <i>Physiological Measurement</i> , 2011 , 32, 649-60	2.9	14
67	Levodopa-Induced Changes in Electromyographic Patterns in Patients with Advanced Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018 , 9, 35	4.1	13

66	Lower impulsive loadings following intensive weight loss after bariatric surgery in level and stair walking: a preliminary study. <i>Knee</i> , 2014 , 21, 534-40	2.6	13
65	Visual processing of coherent rotation in the central visual field: an fMRI study. <i>Perception</i> , 2003 , 32, 1247-57	1.2	12
64	High-resolution QRS fiducial point corrections in sparsely sampled ECG recordings. <i>Physiological Measurement</i> , 2005 , 26, 743-51	2.9	12
63	An electrical impedance tomography measurement system for experimental use. <i>Review of Scientific Instruments</i> , 1996 , 67, 3605-3609	1.7	12
62	A principal component regression approach for estimation of ventricular repolarization characteristics. <i>IEEE Transactions on Biomedical Engineering</i> , 2010 , 57, 1062-9	5	11
61	Heart rate variability derived from exercise ECG in the detection of coronary artery disease. <i>Physiological Measurement</i> , 2007 , 28, 1189-200	2.9	11
60	A new computational approach for cortical imaging. <i>IEEE Transactions on Medical Imaging</i> , 2001 , 20, 325-327	3.7	11
59	Effects of mop handle height on shoulder muscle activity and perceived exertion during floor mopping using a figure eight method. <i>Industrial Health</i> , 2016 , 54, 58-67	2.5	11
58	Nitroglycerin-induced changes in facial skin temperature: Cold nose as a predictor of headache?. <i>Clinical Physiology and Functional Imaging</i> , 2013 , 33, 409-17	2.4	10
57	Nonlinear state-space modeling of human motion using 2-D marker observations. <i>IEEE Transactions on Biomedical Engineering</i> , 2014 , 61, 2167-78	5	9
56	Measurements of skin temperature responses to cold exposure of foot and face in healthy individuals: variability and influencing factors. <i>Clinical Physiology and Functional Imaging</i> , 2011 , 31, 307-14	4.4	9
55	Psychophysiological responses to positive and negative food and nonfood visual stimuli.. <i>Journal of Neuroscience, Psychology, and Economics</i> , 2016 , 9, 78-88	1.6	9
54	Effects of implementing an ergonomic work schedule on heart rate variability in shift-working nurses. <i>Journal of Occupational Health</i> , 2013 , 55, 225-33	2.3	8
53	The correlation of vectorcardiographic changes to blood lactate concentration during an exercise test. <i>Biomedical Signal Processing and Control</i> , 2013 , 8, 491-499	4.9	7
52	Hypoglycemia detection based on cardiac repolarization features. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 4697-700	0.9	7
51	Principal Component Regression on Motor Evoked Potential in Single-Pulse Transcranial Magnetic Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2019 , 27, 1521-1528	4.8	6
50	EMG signal morphology in essential tremor and Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 5765-8	0.9	6
49	Dynamic tension EMG to characterize the effects of DBS treatment of advanced Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 3248-51	0.9	6

48	Time-varying reconstruction in single photon emission computed tomography. <i>International Journal of Imaging Systems and Technology</i> , 2004 , 14, 186-197	2.5	6
47	Parameters of Surface Electromyogram Suggest That Dry Immersion Relieves Motor Symptoms in Patients With Parkinsonism. <i>Frontiers in Neuroscience</i> , 2018 , 12, 667	5.1	6
46	Heart rate variability evaluation of Emfit sleep mattress breathing categories in NREM sleep. <i>Clinical Neurophysiology</i> , 2015 , 126, 967-74	4.3	5
45	Autonomic responses to tooth clenching in migraineurs-augmented trigeminocardiac reflex?. <i>Journal of Oral Rehabilitation</i> , 2018 , 45, 764-769	3.4	5
44	Time-varying spectrum estimation of heart rate variability signals with Kalman smoother algorithm. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 1-4	0.9	5
43	Force-velocity profiling in ice hockey skating: reliability and validity of a simple, low-cost field method. <i>Sports Biomechanics</i> , 2020 , 1-16	2.2	4
42	Nonlinear parameters of surface EMG in schizophrenia patients depend on kind of antipsychotic therapy. <i>Frontiers in Physiology</i> , 2015 , 6, 197	4.6	4
41	Analysis of heart rate variability dynamics during propofol and dexmedetomidine anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1634-7	0.9	4
40	Spectral power and fractal dimension: Methodological comparison in a sample of normal sleepers and chronic insomniacs. <i>Sleep and Biological Rhythms</i> , 2007 , 5, 239-250	1.3	4
39	Loss of time-organized sympathetic skin responses in acute psychosis. <i>Journal of Nervous and Mental Disease</i> , 2001 , 189, 552-6	1.8	4
38	Tooth Clenching Induces Abnormal Cerebrovascular Responses in Migraineurs. <i>Frontiers in Neurology</i> , 2018 , 9, 1112	4.1	4
37	Acral coldness in migraineurs. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2014 , 180, 70-3	2.4	3
36	Autonomic nervous system response to L-dopa in patients with advanced Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2015 , 2015, 6162-5	0.9	3
35	Causal estimation of neural and overall baroreflex sensitivity in relation to carotid artery stiffness. <i>Physiological Measurement</i> , 2013 , 34, 1633-44	2.9	3
34	Discrimination of EMG and acceleration measurements between patients with Parkinson's disease and healthy persons. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 4878-81	0.9	3
33	Method for testing motion analysis laboratory measurement systems. <i>Journal of Biomechanical Engineering</i> , 2010 , 132, 114501	2.1	3
32	Three-dimensional electrical impedance tomography using complete electrode model 1997 , 3171, 166		3
31	Nutritive sucking induces age-specific EEG-changes in 0-24 week-old infants. <i>Research in Social and Administrative Pharmacy</i> , 2016 , 45, 98-108	2.9	3

30	Effects of Mop Handle Height on Forearm Muscle Activity, Wrist and Upper Arm Posture and Movement During Floor Mopping. <i>IIESE Transactions on Occupational Ergonomics and Human Factors</i> , 2018 , 6, 84-97	4	3
29	Recursive estimation of fast-impedance changes in electrical impedance tomography and a related problem 1997 , 3171, 208		2
28	A subspace method for dynamical estimation of evoked potentials. <i>Computational Intelligence and Neuroscience</i> , 2007 , 2007, 61916	3	2
27	Autonomic responses to tooth clenching and handgrip test.. <i>Acta Odontologica Scandinavica</i> , 2022 , 1-7	2.2	2
26	Reduced cortical activation in inferior frontal junction in Unverricht-Lundborg disease (EPM1) - A motor fMRI study. <i>Epilepsy Research</i> , 2015 , 111, 78-84	3	1
25	Surface EMG parameters in schizophrenia patients. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 3260-3	0.9	1
24	Cholesterol metabolism, endothelial dysfunction, and carotid artery stiffness in type 1 diabetes?. <i>Artery Research</i> , 2011 , 5, 8	2.2	1
23	Analysis of dynamic EMG and acceleration measurements in Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 5053-6	0.9	1
22	Noise sensitivity of a principal component regression based RT interval variability estimation method. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 3098-101		1
21	Optimization of illumination profiles in line-scan camera systems. <i>Measurement Science and Technology</i> , 2000 , 11, 1301-1306	2	1
20	Estimation of the dynamics of event-related desynchronisation changes in electroencephalograms. <i>Medical and Biological Engineering and Computing</i> , 1999 , 37, 309-15	3.1	1
19	The Potential of Dance Art in Recovery From a Stroke: A Case Study. <i>Nordic Journal of Dance</i> , 2019 , 10, 32-43	0.2	1
18	An Overview of Strategies for Reducing Upper Extremity Physical Exposure Associated With Floor Mopping: A Systematic Review. <i>Human Factors</i> , 2019 , 61, 43-63	3.8	1
17	A Perturbed Postural Balance Test Using an Instrumented Treadmill - Precision and Accuracy of Belt Movement and Test-Retest Reliability of Balance Measures. <i>Frontiers in Sports and Active Living</i> , 2021 , 3, 688993	2.3	1
16	Forces required in repositioning a patient in bed using regular sheet and slide film. <i>International Journal of Industrial Ergonomics</i> , 2022 , 90, 103302	2.9	1
15	Cerebral cortex and sub-cortex lateralization in cardiovascular regulation: correlations of BOLD fMRI and heart rate variability. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3412-5	0.9	0
14	Perturbation expansions in polynomial root tracking. <i>Signal Processing</i> , 2000 , 80, 515-523	4.4	0
13	Wearable monitoring of positive and negative myoclonus in progressive myoclonic epilepsy type 1. <i>Clinical Neurophysiology</i> , 2021 , 132, 2464-2472	4.3	0

12	Lumbopelvic movement control in contemporary dancers: A multiple case study. <i>Translational Sports Medicine</i> , 2019 , 2, 214-220	1.3
11	The Impact of Obesity and Weight Loss on Gait in Adults. <i>Studies in Mechanobiology, Tissue Engineering and Biomaterials</i> , 2014 , 125-147	0.5
10	EMG and acceleration signal analysis for quantifying the effects of medication in Parkinson's disease. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2011 , 2011, 7496-9	0.9
9	Kalman smoother based time-varying spectrum estimation of EEG during single agent propofol anesthesia. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 5709-12	0.9
8	Estimation of arterial baroreflex sensitivity in relation to carotid artery stiffness. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 3408-11	0.9
7	Tracking single-trial evoked potential changes with Kalman filtering and smoothing. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 157-60	0.9
6	Estimation of single-trial fMRI BOLD responses using combined EEG and fMRI measurements. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2008 , 2008, 299-302	0.9
5	Subspace approaches for fMRI time series estimation. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 5485-8	
4	Method for testing movement analysis laboratory measurement systems. <i>Gait and Posture</i> , 2006 , 24, S106-S107	2.6
3	Embodiment der Psyche des Neugeborenen 2013 , 113-128	
2	Nutritive sucking creates a neurophysiological bridge over the birth gap. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2020 , 109, 233-235	3.1
1	Changes in elbow flexion EMG morphology during adjustment of deep brain stimulator in advanced Parkinson's disease.. <i>PLoS ONE</i> , 2022 , 17, e0266936	3.7