

GearÃ³id M Ã“laighin

List of Publications by Year in descending order

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177
papers

9,582
citations

53939

47
h-index

48101

92
g-index

183
all docs

183
docs citations

183
times ranked

12077
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of a Planner-Based Intervention to Facilitate Diet Behaviour Change in Type 2 Diabetes. <i>Sensors</i> , 2022, 22, 2795.	2.1	3
2	Applicability and tolerability of electrical stimulation applied to the upper and lower leg skin surface for cueing applications in Parkinson's disease. <i>Medical Engineering and Physics</i> , 2021, 87, 73-81.	0.8	4
3	Multifaceted Sensory Electrical Stimulation cueing for Freezing of Gait in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2021, 82, 106-108.	1.1	2
4	Augmenting Critical Care Patient Monitoring Using Wearable Technology: Review of Usability and Human Factors. <i>JMIR Human Factors</i> , 2021, 8, e16491.	1.0	6
5	Identifying Barriers and Facilitators to Diet and Physical Activity Behaviour Change in Type 2 Diabetes Using a Design Probe Methodology. <i>Journal of Personalized Medicine</i> , 2021, 11, 72.	1.1	15
6	Comparison of the Hemodynamic Performance of Two Neuromuscular Electrical Stimulation Devices Applied to the Lower Limb. <i>Journal of Personalized Medicine</i> , 2020, 10, 36.	1.1	1
7	Effect of auditory, visual and somatosensory cueing strategies on On-State Freezing of Gait in Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2020, 77, 1-4.	1.1	6
8	Parentsâ€™ and healthcare professionalsâ€™ perceptions of the use of live video recording in neonatal units: a focus group study. <i>BMC Pediatrics</i> , 2020, 20, 143.	0.7	21
9	Novel Interface Designs for Patient Monitoring Applications in Critical Care Medicine: Human Factors Review. <i>JMIR Human Factors</i> , 2020, 7, e15052.	1.0	9
10	Estimating dyskinesia severity in Parkinsonâ€™s disease by using a waist-worn sensor: concurrent validity study. <i>Scientific Reports</i> , 2019, 9, 13434.	1.6	13
11	A Technological Review of Wearable Cueing Devices Addressing Freezing of Gait in Parkinsonâ€™s Disease. <i>Sensors</i> , 2019, 19, 1277.	2.1	60
12	Double-Tap Interaction as an Actuation Mechanism for On-Demand Cueing in Parkinsonâ€™s Disease. <i>Sensors</i> , 2019, 19, 5167.	2.1	2
13	Prototyping a User Interface for a New Sepsis Risk Decision Support System Using Participatory Design. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 242-248.	0.5	1
14	Defining User Needs for a New Sepsis Risk Decision Support System in Neonatal ICU Settings Through Ethnography: User Interviews and Participatory Design. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 221-227.	0.5	0
15	State of the Art and Future Trends in the Usability of Patient Monitors. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 338-344.	0.5	0
16	Deep learning for freezing of gait detection in Parkinsonâ€™s disease patients in their homes using a waist-worn inertial measurement unit. <i>Knowledge-Based Systems</i> , 2018, 139, 119-131.	4.0	151
17	A "HOLTER" for Parkinsonâ€™s disease: Validation of the ability to detect on-off states using the REMPARK system. <i>Gait and Posture</i> , 2018, 59, 1-6.	0.6	46
18	Sensory Electrical Stimulation Cueing May Reduce Freezing of Gait Episodes in Parkinsonâ€™s Disease. <i>Journal of Healthcare Engineering</i> , 2018, 2018, 1-6.	1.1	18

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19	Does culture affect usability? A trans-European usability and user experience assessment of a falls-risk connected health system following a user-centred design methodology carried out in a single European country. <i>Maturitas</i> , 2018, 114, 22-26.	1.0	14
20	Enhancing Home Health Mobile Phone App Usability Through General Smartphone Training: Usability and Learnability Case Study. <i>JMIR Human Factors</i> , 2018, 5, e18.	1.0	23
21	Behaviour change techniques targeting both diet and physical activity in type 2 diabetes: A systematic review and meta-analysis. <i>International Journal of Behavioral Nutrition and Physical Activity</i> , 2017, 14, 18.	2.0	226
22	Diet Behavior Change Techniques in Type 2 Diabetes: A Systematic Review and Meta-analysis. <i>Diabetes Care</i> , 2017, 40, 1800-1810.	4.3	51
23	Analysis of Correlation between an Accelerometer-Based Algorithm for Detecting Parkinsonian Gait and UPDRS Subscales. <i>Frontiers in Neurology</i> , 2017, 8, 431.	1.1	47
24	Evaluation of the Finis Swimsense [®] and the Garmin Swim [®] activity monitors for swimming performance and stroke kinematics analysis. <i>PLoS ONE</i> , 2017, 12, e0170902.	1.1	19
25	When a Step Is Not a Step! Specificity Analysis of Five Physical Activity Monitors. <i>PLoS ONE</i> , 2017, 12, e0169616.	1.1	34
26	Home detection of freezing of gait using support vector machines through a single waist-worn triaxial accelerometer. <i>PLoS ONE</i> , 2017, 12, e0171764.	1.1	135
27	A Human-Centered Design Methodology to Enhance the Usability, Human Factors, and User Experience of Connected Health Systems: A Three-Phase Methodology. <i>JMIR Human Factors</i> , 2017, 4, e8.	1.0	211
28	Human-Centered Design Study: Enhancing the Usability of a Mobile Phone App in an Integrated Falls Risk Detection System for Use by Older Adult Users. <i>JMIR MHealth and UHealth</i> , 2017, 5, e71.	1.8	63
29	Inertial Sensor Technology for Elite Swimming Performance Analysis: A Systematic Review. <i>Sensors</i> , 2016, 16, 18.	2.1	100
30	The Use of Intermittent Pneumatic Compression in Orthopedic and Neurosurgical Postoperative Patients. <i>Annals of Surgery</i> , 2016, 263, 888-889.	2.1	24
31	Peripheral tactile sensory perception of older adults improved using subsensory electrical noise stimulation. <i>Medical Engineering and Physics</i> , 2016, 38, 822-825.	0.8	20
32	Detecting freezing of gait with a tri-axial accelerometer in Parkinson [™] s disease patients. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 223-233.	1.6	94
33	Dopaminergic-induced dyskinesia assessment based on a single belt-worn accelerometer. <i>Artificial Intelligence in Medicine</i> , 2016, 67, 47-56.	3.8	45
34	Analysis of swimming performance: perceptions and practices of US-based swimming coaches. <i>Journal of Sports Sciences</i> , 2016, 34, 997-1005.	1.0	45
35	Toward a Connected Health System for Older Adults: Lessons Learned. <i>Advances in Intelligent Systems and Computing</i> , 2016, , 849-857.	0.5	3
36	These Shoes Are Made for Walking: Sensitivity Performance Evaluation of Commercial Activity Monitors under the Expected Conditions and Circumstances Required to Achieve the International Daily Step Goal of 10,000 Steps. <i>PLoS ONE</i> , 2016, 11, e0154956.	1.1	26

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37	A Multi-Stage Human Factors and Comfort Assessment of Instrumented Insoles Designed for Use in a Connected Health Infrastructure. <i>Journal of Personalized Medicine</i> , 2015, 5, 487-508.	1.1	11
38	Smartphone app design for the wireless control of a neuromuscular electrical stimulator device with integrated randomization allocation process for RCT applications. , 2015, 2015, 4574-7.		0
39	The past, present and future in scaffold-based tendon treatments. <i>Advanced Drug Delivery Reviews</i> , 2015, 84, 257-277.	6.6	171
40	Fine-Wire Electromyography Response to Neuromuscular Electrical Stimulation in the Triceps Surae. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2015, 23, 244-249.	2.7	0
41	Application of Video-Based Methods for Competitive Swimming Analysis: A Systematic Review. <i>Diabetes Research (Fairfax, Va)</i> , 2015, 1, 133-150.	0.1	20
42	Human Centred Design Considerations for Connected Health Devices for the Older Adult. <i>Journal of Personalized Medicine</i> , 2014, 4, 245-281.	1.1	54
43	Comparative lower limb hemodynamics using neuromuscular electrical stimulation (NMES) versus intermittent pneumatic compression (IPC). <i>Physiological Measurement</i> , 2014, 35, 1849-1859.	1.2	15
44	Patients'™ experiences of using a smartphone application to increase physical activity: the SMART MOVE qualitative study in primary care. <i>British Journal of General Practice</i> , 2014, 64, e500-e508.	0.7	58
45	Effectiveness of a smartphone application to promote physical activity in primary care: the SMART MOVE randomised controlled trial. <i>British Journal of General Practice</i> , 2014, 64, e384-e391.	0.7	250
46	Changes in the electrical properties of the electrode-“skin” underlying tissue composite during a week-long programme of neuromuscular electrical stimulation. <i>Physiological Measurement</i> , 2014, 35, 231-252.	1.2	27
47	Monitoring human health behaviour in one's living environment: A technological review. <i>Medical Engineering and Physics</i> , 2014, 36, 147-168.	0.8	112
48	A new paradigm of electrical stimulation to enhance sensory neural function. <i>Medical Engineering and Physics</i> , 2014, 36, 1088-1091.	0.8	14
49	Haemodynamic performance of neuromuscular electrical stimulation (NMES) during recovery from total hip arthroplasty. <i>Journal of Orthopaedic Surgery and Research</i> , 2013, 8, 3.	0.9	36
50	SMART MOVE - a smartphone-based intervention to promote physical activity in primary care: study protocol for a randomized controlled trial. <i>Trials</i> , 2013, 14, 157.	0.7	50
51	Comparing Supervised Learning Techniques on the Task of Physical Activity Recognition. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 46-52.	3.9	32
52	Implementing transnational telemedicine solutions: A connected health project in rural and remote areas of six Northern Periphery countries. <i>European Journal of General Practice</i> , 2013, 19, 52-58.	0.9	39
53	New technology-“based functional assessment tools should avoid the weaknesses and proliferation of manual functional assessments. <i>Journal of Clinical Epidemiology</i> , 2013, 66, 619-632.	2.4	3
54	Innovations in health care services: The CAALYX system. <i>International Journal of Medical Informatics</i> , 2013, 82, e307-e320.	1.6	62

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55	Analysis of gait and balance through a single triaxial accelerometer in presymptomatic and symptomatic Huntington's disease. <i>Gait and Posture</i> , 2013, 37, 49-54.	0.6	80
56	Analysis of Pulsed vs. Continuous Power Delivery from an Electromagnetic Generator. <i>Journal of Physics: Conference Series</i> , 2013, 476, 012058.	0.3	0
57	An experimental study of prescribed walking in the management of venous leg ulcers. <i>Journal of Wound Care</i> , 2012, 21, 421-430.	0.5	29
58	On the Application of Active Learning and Gaussian Processes in Postcryopreservation Cell Membrane Integrity Experiments. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012, 9, 846-856.	1.9	3
59	The age of the virtual trainer. <i>Procedia Engineering</i> , 2012, 34, 242-247.	1.2	7
60	Development of a Body Sensor Network to Detect Motor Patterns of Epileptic Seizures. <i>IEEE Transactions on Biomedical Engineering</i> , 2012, 59, 3204-3211.	2.5	53
61	Comparison of Single- and Two-Channel Neuromuscular Electrical Stimulation Sites for Enhancing Venous Return. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 389-394.	2.7	15
62	Hemodynamic effects of habituation to a week-long program of neuromuscular electrical stimulation. <i>Medical Engineering and Physics</i> , 2012, 34, 459-465.	0.8	20
63	Cerebral Compliance Changes With Sympathetic Activation During Cold Pressor Test. <i>FASEB Journal</i> , 2012, 26, 685-33.	0.2	0
64	Optimum gravity vector and vertical acceleration estimation using a tri-axial accelerometer for falls and normal activities. , 2011, 2011, 7896-9.		14
65	Activity classification using a single chest mounted tri-axial accelerometer. <i>Medical Engineering and Physics</i> , 2011, 33, 1127-1135.	0.8	123
66	BION microstimulators: A case study in the engineering of an electronic implantable medical device. <i>Medical Engineering and Physics</i> , 2011, 33, 7-16.	0.8	64
67	Patient tolerance of neuromuscular electrical stimulation (NMES) in the presence of orthopaedic implants. <i>Medical Engineering and Physics</i> , 2011, 33, 56-61.	0.8	24
68	The effect of blood pressure calibrations and transcranial Doppler signal loss on transfer function estimates of cerebral autoregulation. <i>Medical Engineering and Physics</i> , 2011, 33, 553-562.	0.8	28
69	Elderly Women Regulate Brain Blood Flow Better Than Men Do. <i>Stroke</i> , 2011, 42, 1988-1993.	1.0	73
70	Hemodynamic performance of NMES in the early post operative period following orthopaedic surgery. , 2011, 2011, 7630-3.		3
71	Venous emptying from the foot: influences of weight bearing, toe curls, electrical stimulation, passive compression, and posture. <i>Journal of Applied Physiology</i> , 2010, 109, 1045-1052.	1.2	21
72	F17â€¦The use of an accelerometer to evaluate the performance of timed up and go test in pre-symptomatic and symptomatic huntington's disease. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2010, 81, A28.1-A28.	0.9	4

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73	Technique for the computation of lower leg muscle bulk from magnetic resonance images. Medical Engineering and Physics, 2010, 32, 926-933.	0.8	15
74	The Anatomy and Physiology of the Venous Foot Pump. Anatomical Record, 2010, 293, 370-378.	0.8	27
75	Evaluation of waist-mounted tri-axial accelerometer based fall-detection algorithms during scripted and continuous unscripted activities. Journal of Biomechanics, 2010, 43, 3051-3057.	0.9	186
76	Motion analysis in delirium: A discrete approach in determining physical activity for the purpose of delirium motoric subtyping. Medical Engineering and Physics, 2010, 32, 101-110.	0.8	23
77	A pilot evaluation of a neuromuscular electrical stimulation (NMES) based methodology for the prevention of venous stasis during bed rest. Medical Engineering and Physics, 2010, 32, 349-355.	0.8	54
78	The Influence of orthopaedic implants on patient tolerance of neuromuscular electrical stimulation (NMES). , 2010, 2010, 5823-6.		5
79	Cerebral autoregulation in the vertebral and middle cerebral arteries during combine head upright tilt and lower body negative pressure in healthy humans. , 2010, 2010, 2505-8.		14
80	Applications of waist segment kinematic measurement using accelerometry for an autonomous fall-detection system during continuous activities. , 2010, , .		3
81	Real-time low-energy fall detection algorithm with a Programmable Truncated MAC. , 2010, 2010, 2423-6.		10
82	The relationship between cardiac output and dynamic cerebral autoregulation in humans. Journal of Applied Physiology, 2010, 109, 1424-1431.	1.2	70
83	Validating a new clinical subtyping scheme for delirium with electronic motion analysis. Psychiatry Research, 2010, 178, 186-190.	1.7	45
84	Upper extremity rehabilitation of children with cerebral palsy using accelerometer feedback on a multitouch display. , 2010, 2010, 1751-4.		32
85	Assessment of waist-worn tri-axial accelerometer based fall-detection algorithms using continuous unsupervised activities. , 2010, 2010, 2782-5.		40
86	Popliteal blood flow and plantar flexion force due to neuromuscular electrical stimulation (NMES) of the calf muscle pump are strongly associated with NMES intensity. , 2009, 2009, 3051-4.		6
87	Integration of a suite of sensors in a wireless health sensor platform. , 2009, , .		5
88	Detecting electroporation by assessing the time constants in the exponential response of human skin to voltage controlled impulse electrical stimulation. , 2009, 2009, 1355-8.		7
89	Gender related differences in cerebral autoregulation in older healthy subjects. , 2009, 2009, 2859-62.		24
90	Evaluation of a single accelerometer based biofeedback system for real-time correction of neck posture in computer users. , 2009, 2009, 7269-72.		36

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91	Surface-applied functional electrical stimulation for orthotic and therapeutic treatment of drop-foot after stroke – a systematic review. <i>Physical Therapy Reviews</i> , 2009, 14, 63-80.	0.3	24
92	A Continuous Wavelet Transform and Classification Method for Delirium Motoric Subtyping. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2009, 17, 298-307.	2.7	11
93	The application of inertial and magnetic sensors to the monitoring of calf muscle pump activity. <i>Medical Engineering and Physics</i> , 2009, 31, 55-60.	0.8	9
94	A programmable and portable NMES device for drop foot correction and blood flow assist applications. <i>Medical Engineering and Physics</i> , 2009, 31, 400-408.	0.8	30
95	A hemodynamic study of popliteal vein blood flow: The effect of bed rest and electrically elicited calf muscle contractions. , 2009, 2009, 2149-52.		9
96	A classification system for delirium subtyping with the use of a commercial mobility monitor. <i>Gait and Posture</i> , 2009, 30, 245-252.	0.6	16
97	Direct measurement of human movement by accelerometry. <i>Medical Engineering and Physics</i> , 2008, 30, 1364-1386.	0.8	447
98	A proposal for the classification and evaluation of fall detectors. <i>Irbm</i> , 2008, 29, 340-349.	3.7	232
99	A threshold-based fall-detection algorithm using a bi-axial gyroscope sensor. <i>Medical Engineering and Physics</i> , 2008, 30, 84-90.	0.8	391
100	The identification of vertical velocity profiles using an inertial sensor to investigate pre-impact detection of falls. <i>Medical Engineering and Physics</i> , 2008, 30, 937-946.	0.8	129
101	The design and development of a long-term fall detection system incorporated into a custom vest for the elderly.. , 2008, 2008, 2836-9.		18
102	A preliminary study of using wireless kinematic sensors to identify basic Activities of Daily Living. , 2008, 2008, 2079-82.		14
103	Identifying changes in human skin electrical properties due to long-term NeuroMuscular Electrical Stimulation. , 2008, 2008, 326-9.		3
104	Accelerometer versus footswitch evaluation of gait unsteadiness and temporal characteristics of gait in two elderly patient groups. , 2008, 2008, 4527-30.		5
105	Fall-detection through vertical velocity thresholding using a tri-axial accelerometer characterized using an optical motion-capture system. , 2008, 2008, 2832-5.		29
106	A wearable wireless platform for fall and mobility monitoring. , 2008, , .		9
107	An integrated fall and mobility sensor and wireless health signs monitoring system. , 2008, , .		11
108	Assessment of techniques used to evaluate the effect of posture and cardiac output on Cerebral Autoregulation. , 2008, 2008, 1992-5.		1

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109	A footswitch evaluation of the gait of elderly fallers with and without a diagnosis of orthostatic hypotension and healthy elderly controls. , 2008, 2008, 5101-4.		4
110	The effect of surface neuromuscular electrical stimulation and compression hosiery applied to the lower limb, on the comfort and blood flow of healthy subjects. , 2008, 2008, 703-6.		2
111	A haemodynamic study of the physiological mechanisms of the venous pump in the healthy human foot. , 2008, 2008, 1411-4.		5
112	Motion analysis in delirium: A wavelet based approach for sub classification. , 2008, 2008, 3574-7.		4
113	Testing of a long-term fall detection system incorporated into a custom vest for the elderly. , 2008, 2008, 2844-7.		53
114	Identifying skin electrical properties using a standard neuromuscular electrical stimulation voltage pulse. , 2008, , .		1
115	Accelerometer and footswitch evaluation of movement in three elderly patient groups. , 2008, , .		0
116	Design and test of a long-term fall detection system incorporated into a custom vest for the elderly. , 2008, , .		25
117	A wireless platform for fall and mobility monitoring. , 2008, , .		4
118	Electronic stimulators for surface neural prosthesis. Journal of Automatic Control, 2008, 18, 25-33.	1.0	25
119	A preliminary investigation of monitoring ADLs using wireless kinematic sensors. , 2008, , .		0
120	A wireless platform for fall and mobility monitoring in health care. , 2008, , .		0
121	Pendulum Analysis of an Integrated Accelerometer to assess its suitability to measure Dynamic Acceleration for Gait Applications. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4891-4.	0.5	9
122	Distinguishing falls from normal ADL using vertical velocity profiles. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 3176-9.	0.5	11
123	Tibialis anterior EMG activation pattern changes with walking speed during over ground and treadmill walking. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4883-6.	0.5	3
124	Development and evaluation of new blood pressure and heart rate signal analysis techniques to assess orthostatic hypotension and its subtypes. Physiological Measurement, 2007, 28, N87-N102.	1.2	7
125	A Technique for the Computation of Lower Leg Muscle Volume from MRI Images in the context of Venous Return. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 951-4.	0.5	2
126	A Clinical Evaluation of a Remote Mobility Monitoring System based on SMS Messaging. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2327-30.	0.5	11

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127	Orthostatic hypotension: a new classification system. <i>Europace</i> , 2007, 9, 937-941.	0.7	24
128	A new blood pressure and heart rate signal analysis technique to assess Orthostatic Hypotension and its subtypes. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 935-8.	0.5	5
129	A Programmable and Portable NMES Device for Drop Foot Correction and Blood Flow Assist Applications. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2416-9.	0.5	4
130	Doppler ultrasound measurements of venous return in the popliteal vein. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 978-81.	0.5	1
131	Does size matter? The impact of calf muscle volume on venous return in patients with venous leg ulcers. <i>Phlebology</i> , 2007, 22, 65-69.	0.6	7
132	Evaluation of a threshold-based tri-axial accelerometer fall detection algorithm. <i>Gait and Posture</i> , 2007, 26, 194-199.	0.6	741
133	Effect of walking speed changes on tibialis anterior EMG during healthy gait for FES envelope design in drop foot correction. <i>Journal of Electromyography and Kinesiology</i> , 2007, 17, 605-616.	0.7	74
134	Fall detection - Principles and Methods. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1663-6.	0.5	399
135	Motion Analysis in Delirium: A Novel Method of Clarifying Motoric Subtypes. <i>Neurocase</i> , 2007, 13, 272-277.	0.2	30
136	Comparison of the performance of the activPAL [®] , a Professional physical activity logger to a discrete accelerometer-based activity monitor. <i>Medical Engineering and Physics</i> , 2007, 29, 930-934.	0.8	160
137	CAALYX: a new generation of location-based services in healthcare. <i>International Journal of Health Geographics</i> , 2007, 6, 9.	1.2	73
138	Mobility in Patients with Venous Leg Ulceration. <i>European Journal of Vascular and Endovascular Surgery</i> , 2007, 33, 488-493.	0.8	37
139	An inertial and magnetic sensor based technique for joint angle measurement. <i>Journal of Biomechanics</i> , 2007, 40, 2604-2611.	0.9	243
140	The application of a use case/task based approach in the development of software for a portable neuromuscular stimulator device. <i>Medical Engineering and Physics</i> , 2007, 29, 765-774.	0.8	0
141	An electrode configuration technique using an electrode matrix arrangement for FES-based upper arm rehabilitation systems. <i>Medical Engineering and Physics</i> , 2006, 28, 166-176.	0.8	47
142	A system for the delivery of programmable, adaptive stimulation intensity envelopes for drop foot correction applications. <i>Medical Engineering and Physics</i> , 2006, 28, 177-186.	0.8	20
143	A Review of Approaches to Mobility Telemonitoring of the Elderly in Their Living Environment. <i>Annals of Biomedical Engineering</i> , 2006, 34, 547-563.	1.3	204
144	Haemodynamic Study Examining the Response of Venous Blood Flow to Electrical Stimulation of the Gastrocnemius Muscle in Patients with Chronic Venous Disease. <i>European Journal of Vascular and Endovascular Surgery</i> , 2006, 31, 300-305.	0.8	61

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145	Preliminary Evaluation of Recommended Airline Exercises for Optimal Calf Muscle Pump Activity. EJVES Extra, 2006, 12, 1-5.	0.1	4
146	Long-term telemonitoring of mobility trends of elderly people using SMS messaging. IEEE Transactions on Information Technology in Biomedicine, 2006, 10, 412-413.	3.6	48
147	A Review of Digestible Microsystems for Gastrointestinal Tract Diagnostic Applications. Critical Reviews in Biomedical Engineering, 2006, 34, 163-186.	0.5	0
148	Review of the potential of a wireless MEMS microsystem for biomedical applications. Sensor Review, 2005, 25, 277-286.	1.0	5
149	Review of the potential of a wireless MEMS and TFT microsystems for the measurement of pressure in the GI tract. Medical Engineering and Physics, 2005, 27, 347-356.	0.8	35
150	Accelerometer based calf muscle pump activity monitoring. Medical Engineering and Physics, 2005, 27, 717-722.	0.8	10
151	Application of Higher Order Statistics Techniques to EMG Signals to Characterize the Motor Unit Action Potential. IEEE Transactions on Biomedical Engineering, 2005, 52, 1195-1209.	2.5	52
152	A description of an accelerometer-based mobility monitoring technique. Medical Engineering and Physics, 2005, 27, 497-504.	0.8	181
153	A Review of Technological Approaches to Venous Ulceration. Critical Reviews in Biomedical Engineering, 2005, 33, 511-556.	0.5	12
154	Rowing. Sports Biomechanics, 2005, 4, 179-195.	0.8	35
155	Accelerometers in rehabilitation medicine for older adults. Age and Ageing, 2005, 34, 556-560.	0.7	237
156	Rectus femoris surface myoelectric signal cross-talk during static contractions. Journal of Electromyography and Kinesiology, 2005, 15, 564-575.	0.7	48
157	Determination of the electrical behaviour of surfactant treated polymer/carbon black composite gas sensors. Composites Part A: Applied Science and Manufacturing, 2005, 36, 487-491.	3.8	47
158	Long-term mobility monitoring of older adults using accelerometers in a clinical environment. Clinical Rehabilitation, 2004, 18, 335-343.	1.0	81
159	Novel silicone-based capacitive pressure sensors with high sensitivity for biomedical applications. E-Polymers, 2004, 4, .	1.3	3
160	Validity of the prosthetic activity monitor to assess the duration and spatio-temporal characteristics of prosthetic walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2004, 12, 379-386.	2.7	41
161	An Investigation of the Effect of Modifying Stimulation Profile Shape on the Loading Response Phase of Gait, during FES-Corrected Drop Foot: Stimulation Profile and Loading Response. Neuromodulation, 2004, 7, 113-125.	0.4	13
162	A review of gas sensors employed in electronic nose applications. Sensor Review, 2004, 24, 181-198.	1.0	657

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163	An investigation of the effect of electrode size and electrode location on comfort during stimulation of the gastrocnemius muscle. <i>Medical Engineering and Physics</i> , 2004, 26, 873-878.	0.8	80
164	A review of low-power wireless sensor microsystems for biomedical capsule diagnosis. <i>Microelectronics International</i> , 2004, 21, 8-19.	0.4	23
165	Modified implanted drop foot stimulator system with graphical user interface for customised stimulation pulse-width profiles. <i>Medical and Biological Engineering and Computing</i> , 2003, 41, 701-709.	1.6	12
166	The use of accelerometry to detect heel contact events for use as a sensor in FES assisted walking. <i>Medical Engineering and Physics</i> , 2003, 25, 879-885.	0.8	135
167	Front-end signal conditioning used for resistance-based sensors in electronic nose systems: a review. <i>Sensor Review</i> , 2003, 23, 230-241.	1.0	20
168	The development of a potential optimized stimulation intensity envelope for drop foot applications. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2003, 11, 249-256.	2.7	30
169	A review of digital data acquisition hardware and software for a portable electronic nose. <i>Sensor Review</i> , 2003, 23, 332-344.	1.0	16
170	A review of portable FES-based neural orthoses for the correction of drop foot. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2002, 10, 260-279.	2.7	227
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