## Dejan B Popovic

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Foot Drop Stimulator. , 2022, , 1241-1255.		0
2	Influence of alumina addition on structural and catalytic properties of sulphated zirconia in isomerization of n-hexane. Processing and Application of Ceramics, 2021, 15, 111-119.	0.8	2
3	Hybrid Tongue - Myoelectric Control Improves Functional Use of a Robotic Hand Prosthesis. IEEE Transactions on Biomedical Engineering, 2021, 68, 2011-2020.	4.2	4
4	A principal component analysis (PCA) based assessment of the gait performance. Biomedizinische Technik, 2021, 66, 449-457.	0.8	6
5	New scale for assessing spasticity based on the pendulum test. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-10.	1.6	5
6	EMG map image processing for recognition of fingers movement. Journal of Electromyography and Kinesiology, 2019, 49, 102364.	1.7	11
7	Anthocyanins Protect Hepatocytes against CCl4-Induced Acute Liver Injury in Rats by Inhibiting Pro-inflammatory mediators, Polyamine Catabolism, Lipocalin-2, and Excessive Proliferation of Kupffer Cells. Antioxidants, 2019, 8, 451.	5.1	27
8	Functional Electric Stimulation Therapy. , 2019, , 614-620.		1
9	Two different melatonin treatment regimens prevent an increase in kidney injury marker-1 induced by carbon tetrachloride in rat kidneys. Canadian Journal of Physiology and Pharmacology, 2019, 97, 422-428.	1.4	11
10	Protective effects of anthocyanins from bilberry extract in rats exposed to nephrotoxic effects of carbon tetrachloride. Chemico-Biological Interactions, 2019, 304, 61-72.	4.0	31
11	Assessment of Spasticity by a Pendulum Test in SCI Patients Who Exercise FES Cycling or Receive Only Conventional Therapy. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 181-187.	4.9	19
12	Hybrid FES-robot devices for training of activities of daily living. , 2018, , 277-287.		4
13	Does galvanic vestibular stimulation decrease spasticity in clinically complete spinal cord injury?. International Journal of Rehabilitation Research, 2018, 41, 251-257.	1.3	5
14	Pendulum test: Quantified assessment of the type and level of spasticity in persons with central nervous system lesions. Serbian Journal of Electrical Engineering, 2018, 15, 1-12.	0.4	2
15	The assessment of spasticity: Pendulum test based smart phone movie of passive markers. Serbian Journal of Electrical Engineering, 2018, 15, 29-39.	0.4	1
16	Antioxidant and proapoptotic effects of anthocyanins from bilberry extract in rats exposed to hepatotoxic effects of carbon tetrachloride. Life Sciences, 2016, 157, 168-177.	4.3	30
17	Stimulation map for control of functional grasp based on multi-channel EMG recordings. Medical Engineering and Physics, 2016, 38, 1251-1259.	1.7	18
18	Control of a Robotic Hand Using a Tongue Control System—A Prosthesis Application. IEEE Transactions on Biomedical Engineering, 2016, 63, 1368-1376.	4.2	51

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19	A comparative study of virtual hand prosthesis control using an inductive tongue control system. Assistive Technology, 2016, 28, 22-29.	2.0	3
20	Posture in dentists: Sitting vs. standing positions during dentistry work - an EMG study. Srpski Arhiv Za Celokupno Lekarstvo, 2016, 144, 181-187.	0.2	19
21	GammaKey software for acquiring, storing, retrieving and processing images obtained by gamma camera $\hat{a} \in$ "Benefits for clinical practice. , 2015, , .		0
22	Recording and assessment of evoked potentials with electrode arrays. Medical and Biological Engineering and Computing, 2015, 53, 857-867.	2.8	3
23	Sensor fusion and computer vision for context-aware control of a multi degree-of-freedom prosthesis. Journal of Neural Engineering, 2015, 12, 066022.	3.5	89
24	Foot Drop Stimulator. , 2015, , 1-12.		0
25	EMG based biofeedback with the smarting system. , 2014, , .		2
26	Microsoft Kinect-Based Artificial Perception System for Control of Functional Electrical Stimulation Assisted Grasping. BioMed Research International, 2014, 2014, 1-12.	1.9	13
27	Computer vision with Microsoft Kinect for control of functional electrical stimulation: ANN classification of the grasping intentions. , 2014, , .		1
28	Stereovision and augmented reality for closed-loop control of grasping in hand prostheses. Journal of Neural Engineering, 2014, 11, 046001.	3.5	95
29	GammaKey system for improved diagnostics with gamma cameras. Computers in Biology and Medicine, 2014, 50, 97-106.	7.0	3
30	Advances in functional electrical stimulation (FES). Journal of Electromyography and Kinesiology, 2014, 24, 795-802.	1.7	124
31	Controlling hand-assistive devices: utilizing electrooculography as a substitute for vision. IEEE Robotics and Automation Magazine, 2013, 20, 40-52.	2.0	20
32	A method for assessing the arm movement performance: probability tube. Medical and Biological Engineering and Computing, 2013, 51, 1315-1323.	2.8	6
33	Multi-Pad Electrode for Effective Grasping: Design. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2013, 21, 648-654.	4.9	54
34	Surfaceâ€distributed lowâ€frequency asynchronous stimulation delays fatigue of stimulated muscles. Muscle and Nerve, 2013, 48, 930-937.	2.2	60
35	Muscle synergies with Walkaround® postural support vs. "cane/therapist―assistance. NeuroRehabilitation, 2013, 33, 491-501.	1.3	0
36	Third-party application for quantitative salivary gland scintigraphy. , 2013, , .		1

Third-party application for quantitative salivary gland scintigraphy. , 2013, , . 36

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37	Assisting Persons after Stroke to Restore Gait: Hybrid System. Biosystems and Biorobotics, 2013, , 209-213.	0.3	1
38	Control of robot assistant for rehabilitation of upper extremities. , 2012, 2012, 3918-21.		2
39	Software Tool for the Prosthetic Foot Modeling and Stiffness Optimization. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-8.	1.3	4
40	Principal Component Analysis of Gait Kinematics Data in Acute and Chronic Stroke Patients. Computational and Mathematical Methods in Medicine, 2012, 2012, 1-8.	1.3	41
41	Nonlinear optimization for drift removal in estimation of gait kinematics based on accelerometers. Journal of Biomechanics, 2012, 45, 2849-2854.	2.1	20
42	WiiMote control: Gaming feedback for motivational training of the arm movements. , 2012, , .		4
43	H-reflex recorded by multi-pad EMG electrodes. , 2012, , .		1
44	Wireless distributed functional electrical stimulation system. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 54.	4.6	27
45	A multi-pad electrode based functional electrical stimulation system for restoration of grasp. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 66.	4.6	130
46	Guest Editorial Motor Skill Learning and Neuro-Rehabilitation. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2012, 20, 237-238.	4.9	7
47	Kinect in neurorehabilitation: Computer vision system for real time hand and object detection and distance estimation. , 2012, , .		11
48	A Novel Hand Prosthesis Control Scheme Implementing a Tongue Control System. International Journal of Engineering and Manufacturing, 2012, 2, 14-21.	0.7	8
49	Influence of planar manipulandum to the hand trajectory during point to point movement. , 2011, 2011, 5975396.		10
50	A soft wearable robot for tremor assessment and suppression. , 2011, , .		29
51	New generation of assistive systems for humans with disability: New tool for neurorehabilitation. , 2011, , .		1
52	Advances in the use of electrical stimulation for the recovery of motor function. Progress in Brain Research, 2011, 194, 215-225.	1.4	14
53	Functional Electrical Therapy for Hemiparesis Alleviates Disability and Enhances Neuroplasticity. Tohoku Journal of Experimental Medicine, 2011, 225, 71-76.	1.2	26
54	Transradial Prosthesis: Artificial Vision for Control of Prehension. Artificial Organs, 2011, 35, 37-48.	1.9	35

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55	Electrical stimulation for the suppression of pathological tremor. Medical and Biological Engineering and Computing, 2011, 49, 1187-1193.	2.8	103
56	Recovery of motor function after stroke: A polymyography-based analysis. Journal of Neuroscience Methods, 2011, 194, 321-328.	2.5	15
57	Action representation of point to point movements: Classification with probability tube. , 2011, , .		3
58	Kinematics of Gait: New Method for Angle Estimation Based on Accelerometers. Sensors, 2011, 11, 10571-10585.	3.8	74
59	Wearable Neural Prostheses. IEEE Engineering in Medicine and Biology Magazine, 2010, 29, 64-69.	0.8	42
60	Distributed lowâ€frequency functional electrical stimulation delays muscle fatigue compared to conventional stimulation. Muscle and Nerve, 2010, 42, 556-562.	2.2	98
61	Cognitive vision system for control of dexterous prosthetic hands: Experimental evaluation. Journal of NeuroEngineering and Rehabilitation, 2010, 7, 42.	4.6	96
62	Learning Arm/Hand Coordination with an Altered Visual Input. Computational Intelligence and Neuroscience, 2010, 2010, 1-12.	1.7	13
63	Action representation for Wii bowling: Classification. , 2010, , .		3
64	An EMG system for studying motor control strategies and fatigue. , 2010, , .		6
65	Mapping of sensory representation of walking and EMG of prime joint movers: Control of functional electrical stimulation. , 2010, , .		4
66	Beginnings of the Societies. , 2009, , 49-60.		0
67	Reproducibility of "BUDA" multisensor system for gait analysis. , 2009, , .		3
68	Influence on walking dynamics of a gait training device that is connected through a lumbar belt. , 2009, , .		0
69	Electrical stimulation as a means for achieving recovery of function in stroke patients. NeuroRehabilitation, 2009, 25, 45-58.	1.3	72
70	Neurorehabilitation Technologies – Present and Future Possibilities. NeuroRehabilitation, 2009, 25, 1-3.	1.3	7
71	Control of the Lower Leg During Walking: A Versatile Model of the Foot. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2009, 17, 63-69.	4.9	5
72	Moving-Window Dynamic Optimization: Design of Stimulation Profiles for Walking. IEEE Transactions on Biomedical Engineering, 2009, 56, 1298-1309.	4.2	18

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73	Lumbar Stimulation Belt for Therapy of Lowâ€Back Pain. Artificial Organs, 2009, 33, 54-60.	1.9	6
74	Automatic determination of the optimal shape of a surface electrode: Selective stimulation. Journal of Neuroscience Methods, 2009, 178, 174-181.	2.5	69
75	Sensor-driven four-channel stimulation of paretic leg: Functional electrical walking therapy. Journal of Neuroscience Methods, 2009, 181, 100-105.	2.5	47
76	AAU-BOT1: a platform for studying dynamic, life-like walking. Applied Bionics and Biomechanics, 2009, 6, 285-299.	1.1	0
77	Biomechanical Modeling for Biologically Inspired Control of Neural Prostheses for Walking. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 359-364.	0.4	0
78	Control of prehension for the transradial prosthesis: Natural-like image recognition system. Journal of Automatic Control, 2009, 19, 27-31.	1.0	12
79	Cortical excitability changes following grasping exercise augmented with electrical stimulation. Experimental Brain Research, 2008, 191, 57-66.	1.5	118
80	Accelerometers and Force Sensing Resistors for Optimal Control of Walking of a Hemiplegic. IEEE Transactions on Biomedical Engineering, 2008, 55, 1973-1984.	4.2	25
81	Walkaround: Mobile Balance Support for Therapy of Walking. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2008, 16, 264-269.	4.9	31
82	External control of movements and artificial neural networks. , 2008, , .		1
83	Functional electrical stimulation for walking: rule based controller using accelerometers. , 2008, , .		2
84	Rule-based control of walking by using decision trees and practical sensors. , 2008, , .		2
85	Central nervous system lesions leading to disability. Journal of Automatic Control, 2008, 18, 11-23.	1.0	8
86	Neural prostheses for walking restoration. Journal of Automatic Control, 2008, 18, 63-71.	1.0	8
87	Control Aspects of Motor Neural Prosthesis: Sensory Interface. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 4361-3.	0.5	2
88	Online adaptation of optimal control of externally controlled walking of a hemiplegic individual. , 2007, , .		4
89	Optiwalk. Un nouvel outil pour la conception et la simulation de lois de commande pour le contrÃ1e de la marche de patients atteints de déficits moteurs. Journal Europeen Des Systemes Automatises, 2007, 41, 239-259.	0.4	6

90 Design of a Control for a Neural Prosthesis for Walking: Use of Artificial Neural Networks. , 2006, , .

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91	Finite State Model of Walking Determined by Adaptive Logic Networks. , 2006, , .		1
92	Symmetry of post-movement beta-ERS and motor recovery from stroke: a low-resolution EEG pilot study. European Journal of Neurology, 2006, 13, 1312-1323.	3.3	17
93	Functional Electrical Stimulation: A MatLab Based Tool for Designing Stimulation Patterns. , 2006, 2006, 5404-7.		3
94	Hybrid Assistive Systems for Rehabilitation: Lessons Learned from Functional Electrical Therapy in Hemiplegics. , 2006, 2006, 2146-9.		10
95	Hybrid Assistive Systems for Rehabilitation: Lessons Learned from Functional Electrical Therapy in Hemiplegics. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
96	Multi-Field Surface Electrode for Selective Electrical Stimulation. Artificial Organs, 2005, 29, 448-452.	1.9	88
97	Life-like Control for Neural Prostheses: "Proximal Controls Distal". , 2005, 2005, 7648-51.		6
98	The Drawing Test: Assessment of coordination abilities and correlation with clinical measurement of spasticity. Archives of Physical Medicine and Rehabilitation, 2005, 86, 289-295.	0.9	15
99	Therapy of paretic arm in hemiplegic subjects augmented with a neural prosthesis: A cross-over study. Canadian Journal of Physiology and Pharmacology, 2004, 82, 749-756.	1.4	101
100	Functional Electrical Therapy (FET): Clinical Trial in Chronic Hemiplegic Subjects. Neuromodulation, 2004, 7, 133-140.	0.8	30
101	E Actitrode: The new selective stimulation interface for functional movements in hemiplegics patients. Serbian Journal of Electrical Engineering, 2004, 1, 21-28.	0.4	19
102	CONTROL ISSUES FOR MOTOR NEUROPROSTHESES. Series on Bioengineering and Biomedical Engineering, 2004, , 809-843.	0.1	2
103	Automatic vs hand-controlled walking of paraplegics. Medical Engineering and Physics, 2003, 25, 63-73.	1.7	51
104	Control of current and future neural prostheses. Medical Engineering and Physics, 2003, 25, 1-2.	1.7	2
105	Clinical evaluation of Functional Electrical Therapy in acute hemiplegic subjects. Journal of Rehabilitation Research and Development, 2003, 40, 443.	1.6	140
106	Optimal control of a two-wheeled mobile robot: Simulation for selecting of the motors. Facta Universitatis - Series Electronics and Energetics, 2003, 16, 55-65.	0.9	0
107	Control of leg movements driven by electrically stimulated muscles. Journal of Automatic Control, 2003, 13, 35-41.	1.0	1
108	Neuroprostheses for grasping. Neurological Research, 2002, 24, 443-452.	1.3	149

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109	Automatic recognition of alertness and drowsiness from EEG by an artificial neural network. Medical Engineering and Physics, 2002, 24, 349-360.	1.7	176
110	Neurorehabilitation of Upper Extremities in Humans with Sensory-Motor Impairment. Neuromodulation, 2002, 5, 54-66.	0.8	41
111	Restitution of Reaching and Grasping Promoted by Functional Electrical Therapy. Artificial Organs, 2002, 26, 271-275.	1.9	84
112	Control of arm movement: reaching synergies for neuroprosthesis with life-like control. Journal of Automatic Control, 2002, 12, 9-15.	1.0	15
113	New controller for functional electrical stimulation systems. Medical Engineering and Physics, 2001, 23, 391-399.	1.7	27
114	Functional postural responses after perturbations in multiple directions in a standing man: a principle of decoupled control. Journal of Biomechanics, 2001, 34, 187-196.	2.1	38
115	Cloning biological synergies improves control of elbow neuroprostheses. IEEE Engineering in Medicine and Biology Magazine, 2001, 20, 74-81.	0.8	60
116	Improved Control for Functional Electrical Stimulation to Restore Walking. Hong Kong Physiotherapy Journal, 2000, 18, 12-20.	1.0	3
117	Feedback error learning neural network for trans-femoral prosthesis. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 2000, 8, 71-80.	1.4	46
118	Nonanalytical Control for Assisting Reaching in Humans with Disabilities. , 2000, , 535-550.		4
119	Automatic synthesis of synergies for control of reaching — hierarchical clustering. Medical Engineering and Physics, 1999, 21, 329-341.	1.7	6
120	Three machine learning techniques for automatic determination of rules to control locomotion. IEEE Transactions on Biomedical Engineering, 1999, 46, 300-310.	4.2	97
121	Optimal control of walking with functional electrical stimulation: a computer simulation study. IEEE Transactions on Rehabilitation Engineering: A Publication of the IEEE Engineering in Medicine and Biology Society, 1999, 7, 69-79.	1.4	124
122	Clinical evaluation of the bionic glove. Archives of Physical Medicine and Rehabilitation, 1999, 80, 299-304.	0.9	108
123	Kinematic redundancy and sensor redundancy for enhancement of robot tracking performance. Journal of Intelligent and Robotic Systems: Theory and Applications, 1996, 15, 263-289.	3.4	4
124	Variable structure systems for control of redundant robot. Robotics and Autonomous Systems, 1994, 13, 13-24.	5.1	9
125	Chapter 35 Finite state model of locomotion for functional electrical stimulation systems. Progress in Brain Research, 1993, 97, 397-407.	1.4	30
126	Control aspects of active above-knee prosthesis. International Journal of Man-Machine Studies, 1991, 35, 751-767.	0.7	54

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127	Properties of implanted electrodes for functional electrical stimulation. Annals of Biomedical Engineering, 1991, 19, 303-316.	2.5	59
128	Strategies for Functional Electrical Stimulation: Implications for Control. Advances in Psychology, 1991, 78, 413-438.	0.1	1
129	Peripheral nerve stimulation in neurological rehabilitation. , 0, , .		6
130	Reliability of Discrete-Event Control at Coordination Level for a Powered Transfemoral Prosthesis. , 0, , .		2
131	Restoration of Movement by Implantable Neural Motor Prostheses. , 0, , 227-241.		0