

January, 2018

NAME: **Mirjana B. Popović**
AGE: Born on 4 May 1951 in Zagreb
e-mail: mpo@etf.rs

EDUCATION

Ph.D.: Faculty of Electrical Engineering, technical sciences, University of Belgrade, **1995**

M.Sc.: Center for Multidisciplinary Studies, clinical and biomedical eng., U of Belgrade, **1985**

B.Sc.: Faculty of Electrical Engineering, automatic control, University of Belgrade, **1976**

CURRENT EMPLOYMENT STATUS

2017-present Research Professor, Institute for Medical Research, Belgrade University, Serbia

2016-present, PhD studies Professor, Faculty of Electrical Engineering, Belgrade University, Serbia

2012-present Professor and chairmen of multidisciplinary doctoral studies in Biomedical engineering and technology at Belgrade University

2009-2016 Professor, Faculty of Electrical Engineering, Belgrade University, Serbia

PREVIOUS POSITIONS

2000-2012 Research Associate Professor, Aalborg University, Department of Health Science and Technology, Centre for Sensory Motor Interaction-SMI

[http://vbn.aau.dk/en/persons/mirjana-popovic\(01895d12-7a9a-4646-b7ae-9a05ee19774a\).html](http://vbn.aau.dk/en/persons/mirjana-popovic(01895d12-7a9a-4646-b7ae-9a05ee19774a).html)

2002-2006 Senior Research Associate, Centre for Multidisciplinary Studies, Belgrade

1998-2002 Research Associate, Institute for Medical Research, Belgrade, Serbia

2004-2009 Associate Professor, Faculty of Electrical Engineering, Belgrade

1994-1996 Senior Research Associate, The Miami Project, University of Miami, USA

1993-1994 Consultant, The Miami Project, Univ. of Miami, School of Medicine, USA

1991-1993 Research Associate, The Miami Project, University of Miami, School of Medicine

PROFESSIONAL

Chief designer for biomedical devices, Industrial Company “Teleoptik” in 80’;

Member of the Committee for establishing **biomedical engineering program** in national high school education in 80’, Yugoslavia.

REALIZATIONS

- Programmable electrical stimulator for restoration of reaching and grasping in post-stroke, Aalborg University and Co Neurodan A/S, Denmark, 2002;
- Control system for pediatric incubator and Belgrade grasping system (BGS), Faculty of El Eng and Company “Medicina TS”, Belgrade, 1997 - 1998;
- Portable monitor for gait analysis, Miami Project to Cure Paralysis, 1995;
- Blood pressure monitor, Company “Teleoptic”, Belgrade, 1983.

SUPERVISION: graduated **five Ph.D.** students and currently supervising **six Ph.D.** students at Belgrade University, serving as commette **member/opponent** at European Universities (K.U. Leuven, Belgium, 2013; Imperial College London, 2014)

PROJECT MANAGEMENT

- “Effects of assistive systems in neurorehabilitation: recovery of sensory-motor functions “ #175016; **2011-2018**, Ministry for Education and Science of Serbia, **project leader**
- “Development of novel technologies for the evaluation of upper extremity motor control in patients with motor impairment”, Serbian-French technology cooperation, # 451-03-01963/2017-09/16, **2018-2019**, Pavle Savic European Program, Milica Đurić-Jovočić, project leader for Serbian partner & Agnès Roby-Brami for ISIR, UPMC, CNRS UMR Paris, **participant**
- „European Network on Robotics for NeuroRehabilitation“, COST European programme for collaboration in technology R&D, # TD1006, **2011-2015**, **Member Committee**
- „Evaluation of strategies for better understanding and quantification of motor synergies in upper extremities“, Serbian-French technology cooperation, **2014-2015**, Pavle Savic European Program, **project leader** for Serbian partner & Agnès Roby-Brami, ISIR, UPMC, CNRS UMR Paris
- “HUMAN behavioral Modeling for enhancing learning by Optimizing hUMAN-Robot interaction- HUMOUR” #231724; **2008-2011**, EC FP7 STREP, **Danish partner**
- "An ambulatory BCI-driven tremor suppression system based on functional electrical stimulation" - TREMOR“ # 224051, FP7-ICT Collaborative project, **2008-2011**, (**scientific director** for SME “UNA sistemi“, Belgrade), **Serbian partner**
- „InRes: Integrating Robots and Electrical Stimulation for Neurorehabilitation", Serbia Switzerland cooperation, SCOPES, # IZ73Z0_128134, **2010-2011**, **participant**
- “ Functional Electrical Therapy (FET) for reshaping motor patterns after cerebro-vascular insult”, #145054; **2006-2010**, Ministry for Science of Serbia, **project leader**
- “COWALK-Control of walking for individuals with disability”, FSS#271-05-0733; **2006-2007**-extended until **Jun 2008**, FSS-Forkningsradet for Sundhed og Sygdom, Denmark, **project leader**
- “Methods to restore motor patterns after stroke“, Serbian-French technology cooperation, # Egide 17694SH; **2007-2008**, Pavle Savic European Program, **project leader** for Serbian partner
- “New technologies for rehabilitation of hemiplegic patients after cerebro-vascular incident“, bilateral cooperation between Serbia and Slovenia; **2005-2006**, **project leader** for Serbian partner
- “ Neurorehabilitation based on FET: treatment of upper extremities ”, #1747; **2002-2005**, Ministry for Science and Technology of Serbia, **project leader**
- Aalborg University, SMI/HST, **2000-2010**:
 - Development of Assessment Methods for Humans with Impact on Reaching and Grasping
 - Stimulation of paretic leg in hemiplegic patients
 - Functional Electrical Therapy (FET) for Enhancing Reaching and Grasping in Hemiplegic Individuals
 - Development of methods for evaluating functional gains in hemiplegic reaching and grasping
 - New control methods for upper-arm neural prostheses
 - Functional Electrical Therapy (FET) of the paretic leg in post-stroke hemiplegics
 - Functional Electrical Therapy (FET) in hemiplegic subjects
 - Evaluation of the efficacy of the new selective interface for electrical stimulation
 - Control for the Therapeutic Arm Neural Prosthesis

Involved in several projects funded by major agencies in North America **1987-1995**:

- Medical Research Council of Canada;
- Alberta Heritage Foundation for Medical Research, Canada;
- National Institute of Health (NIH), US
- National Institute for Disability and Rehabilitation Research (NIDRR), US.

FOUNDER OF STUDENT SYMPOSIUM/CONFERENCES

„**Brain-Computer-Interface from Student-to-Student Interface** (BCI from SSI)“, *Brain Awareness Week-BAW*: March **2011**, March **2012**, March **2013**, March **2014**, March **2015**,
<http://www.dana.org/BAW/>
http://automatika.etf.rs/images/FAJLOVI_srpski/obavestjenja/BAW2015/BAW_agenda_2015_eng.pdf

INVITED LECTURES

- „Advancing Functional Electrical Therapy (FET)“, Institut des Systèmes Intelligents et de Robotique, UPMC, Sorbone Universites, Paris, 9. November, **2015**,
http://www.isir.upmc.fr/index.php?op=view_page&id=108&lang=fr&menuid=8
- „Brain-Computer-Interface“, International student organization EESTEC "World Beyond Tomorrow", faculty of Electrical Engineering,, Belgrade, April, **2013**
- „Brain control of assistive devices“, 10th Mediterranean Forum of Physical and Rehabilitation Medicine, 13th SAPMR Congress, “Interaction for Rehabilitation”, Budva, Monte Negro, 29.9-2.10., October, **2013**
- „Controlling robots with brain signals“, Robotics, Center for Science, Belgrade, October, **2012**
- „Brain signals in assistive technologies“, Section: Engineering in neurorehabilitation, „Research in neurorehabilitation“, Serbian Academy of Science - SANU, **2012**
- „Italian and Serbian universities and small enterprises working together in European research project – TREMOR“, Workshop Serbia - Italia: Status and Perspectives of the Scientific and Technological Bilateral Cooperation, BU, Belgrade, June, **2012**
- „Functional Electrical Stimulation- FET in motor reeducation of spastic/paretic arm“, „Research in neurorehabilitation“, Serbian Academy of Science - SANU, **2010**

MEMBERSHIP: Institute for Electronic and Electric Engineers (IEEE), Women in IEEE, International Functional Electrical Stimulation Society (IFESS) – Founding Member, European Alliance for Medical and Biological Engineering & Science (EAMBS) - representative for Faculty of Electrical Engineering, The Dana Alliance for Brain Initiatives, Society for Biomedical Engineering and Physics of Serbia, Serbian Society for Ethics (BioEthics), Society for Electronics, Automatics and Computer Engineering in Serbia (ETRAN).

JOURNAL REVIEWER: IEEE Trans Neural Syst Rehab Eng, IEEE Trans Biomed Eng, Med Eng Phys, Med Biol Eng Phys, J Electromyography, J Reh Ras Develop, Movement Disorders, J Neuroscience Methods, Comp Meth and Prog in Biomed, Annals of Biomed Eng, Trans on Signal Processing; etc.

PROJECT REVIEWER

- National and bilateral projects in basic research and technology for the Ministry of Education and Science, Serbia, **2009-2017**
- Several European projects ("Closed loop platform for brain stimulation with real time activity-based spike detection", The Industrial Research Fund (IOF) KU Leuven-scientific & market value of a project proposal, **2013**)

CHAIRMEN: Telecommunication Forum-TELFOR, Neural Network Applications in Electrical Engineering - NEUREL, IFESS, NEUROTECHNIX

- „Brain and spinal cord stimulation“, 10th Mediterranean Forum of Phys and Rehab Med & 13th SAPMR Congress, “Interaction for Rehabilitation”, Budva, Monte Negro, **2013**
- „Engineering in neurorehabilitation“, „Research in neurorehabilitation“, Serbian Academy of Science- SANU, **2012**
- "Stimulation as a tool in neurological disorders", 11th Congress of Clinical Neurophysiology with international participation, Military Medical Academy, Belgrade, Serbia, **2012**

COLLABORATION

University Rehabilitation Center “Dr. Miroslav Zotović” and Clinical Centre for Neurology, Serbia; HammelNeuroCenter, Brønderslev Rehabilitation Center and Klinik for Rehabilitering-Amager Hospital, Denmark; Academic& Research institutions in: France, Italy, Slovenia, Canada, US.

AWARDS: Award in Biological and Medical Eng, 51st ETRAN, Montenegro, 2007; Best scientific paper (doctoral students) in neural control, Neural Control Meeting, Florida, 1993; Best scientific paper in Biol and Med Eng, 33rd ETAN, YU, 1989.

PUBLICATIONS: Total number of articles in peer reviewed journals **39**, printed contributions to peer reviewed conference proceedings **162**, books **2**, book chapters **7**.

CITATIONS:

According to **SCOPUS** total number of citations since 1998 is 908 (h=**16**), when excluded citations of all authors 606 (h=14).

Google scholar <https://scholar.google.com/citations?user=Zju4TDUAAAAJ>

Citation indices All Since 2012

Citations	1999	897
h-index	22	16
i10-index	44	28

RESEARCH INTEREST

Rehabilitation engineering: analyzing and comparing motor performance of able-bodied humans and people with sensory-motor deficits in order to design better controllers for neural prostheses; developing more adequate control of sensory-motor substrates, new control that applies synergies found in able-bodied subjects and hierarchical, hybrid methods, new techniques for processing of human nervous system electrical activity.

Motor control: organization of human complex movement, perceptuo-motor coordination and control, acquiring motor skills. Acquisition and processing of human signals.

Mirjana Popovic: List of publications

Book chapters
<p>Andrej Savić, Romulus Lontis, Ning Jiang, Mirjana Popović, Dario Farina, Kim Dremstrup, Natalie Mrachacz-Kersting, Movement Related Cortical Potentials and Sensory Motor Rhythms during Self Initiated and Cued Movements, In: Replace, Repair, Restore, Relieve – Bridging Clinical and Engineering Solutions in Neurorehabilitation, Biosystems & Biorobotics, Eds.: Winnie Jensen, Ole Kæseler Andersen, Metin Akay, Springer, 2014, Volume 7, p. 701-707, ISBN: 978-3-319-08071-0 (Print) 978-3-319-08072-7 (Online), Series ISSN2195-3562, doi: 10.1007/978-3-319-08072-7_98 http://link.springer.com/chapter/10.1007/978-3-319-08072-7_98</p>
<p>Andrej Savić, Nebojša Malešević, Mirjana B. Popović, Motor Imagery Driven BCI with Cue-Based Selection of FES Induced Grasps, In: Converging Clinical and Engineering Research on Neurorehabilitation, Eds.: José L Pons, Diego Torricelli, Marta Pajaro, Springer, 2013, Volume 1, p. 513-516, ISBN (print): 978-3-642-34545-6, ISBN(electr): 978-3-642-34546-3, Series ISSN:2195-3562, doi:10.1007/978-3-642-34546-3_82, http://link.springer.com/chapter/10.1007/978-3-642-34546-3_82</p>
<p>Mirjana B Popović, Dejan B. Popović, Functional electrical therapy of upper extremities, In: Introduction to Neural Engineering for Motor Rehabilitation. Eds: Dario Farina, Winnie Jensen, Metin Akay. Wiley-IEEE press, 2013, p. 477-492, Ch. 24, Print ISBN: 9780470916735, Online: 9781118628522, doi: 10.1002/9781118628522 http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470916737_descCd-tableOfContents.html</p>
<p>Dejan B. Popović, Mirjana B. Popović, Methods for movement restoration, In: Introduction to Neural Engineering for Motor Rehabilitation. Eds: Dario Farina, Winnie Jensen, Metin Akay. Wiley-IEEE press, 2013, Ch.18, p. 351-376. Print ISBN: 9780470916735, Online ISBN: 9781118628522, doi: 10.1002/9781118628522 http://eu.wiley.com/WileyCDA/WileyTitle/productCd-0470916737_descCd-tableOfContents.html</p>
<p>Popović DB, Popović MB. External control of movements. In: Biomedical engineering handbook: Biomedical Engineering Fundamentals, Bronzino JD (ed.) 2006, 3rd edition, Boca Raton (FL), CRC Press LLC, Chapter 15:1–22. ISBN/ISSN: 0-8493-2121-2; In: Biomedical engineering handbook: Molecular, Cellular, and Tissue engineering, Bronzino JD and Peterson DR (eds.), 2015, 4th edition, Boca Raton (FL), CRC Press LLC, Section III Physiological modeling, simulation, and control: 24:1–29, ISBN/ISSN 13-978-1-4398-2530-3 https://www.crcpress.com/Molecular-Cellular-and-Tissue-Engineering/Bronzino-Peterson/p/book/9781439825303?source=igodigital</p>
<p>Popović DB, Popović MB. Nonanalytical control for assisting reaching in humans with disability. In: Biomechanics and Neural Control of movement. Winters J, Crago PE (eds.) Springer-Verlag, 2000, Chapter 39:535-548, ISBN 978-1-4612-2104-3, http://www.springer.com/us/book/9780387949741#</p>
<p>Ljubisavljević M, Popović MB. Data acquisition, processing and storage. In: Modern techniques in neuroscience. Windhorst U, Johansson H (eds.) Springer-Verlag, 1999, Chapter 45:1277-1309, ISBN 978-3-642-58552-4, http://www.springer.com/us/book/9783642636431</p>
Refereed scientific journals (peer review)
<p>Irina Reljin, Zoran Obradović, Mirjana B. Popović, Valeri Mladenov, New Methods for Analyzing Complex Biomedical Systems and Signals, Complexity, May 2018. pp. 1-3. https://www.hindawi.com/journals/complexity/2018/6405121/ https://doi.org/10.1155/2018/6405121</p>
<p>Vera Miler Jerkovic, Vladimir Kojic, Natasa Dragasevic Miskovic, Tijana Djukic, Vladimir S Kostic, Mirjana B Popovic, Analysis of on-surface and in-air movement in handwriting of subjects with Parkinson’s disease and atypical parkinsonism, Biomedical Engineering/ Biomedizinische Technik, 2018, 2018/5/1 https://www.degruyter.com/view/j/bmte.ahead-of-print/bmt-2017-0148/bmt-2017-0148.xml https://doi.org/10.1515/bmt-2017-0148</p>
<p>Nenad B Popović, Nadica Miljković, Mirjana B Popović, Simple gastric motility assessment method with a single-channel electrogastrograms, Biomedical Engineering/ Biomedizinische Technik, 2018, 2018/5/1 https://www.degruyter.com/view/j/bmte.ahead-of-print/bmt-2017-0218/bmt-2017-0218.xml#supplementaryMaterialBlock https://doi.org/10.1515/bmt-2017-0218</p>
<p>Đurić-Jovičić Milica, Jovičić Nenad, Radovanović Saša, Ječmenica-Lukić Milica, Belić Minja, Popović Mirjana, Kostić Vladimir, Finger and foot tapping sensor system for objective motor assessment, Vojnosanitetski pregled, (Military Medical Journal), 2018, 75(1):68-77, ISSN: 0042-8450, https://doi.org/10.2298/VSP150502323D http://www.doiserbia.nb.rs/issue.aspx?issueid=3032</p>
<p>Daniel Simonsen, Mirjana B. Popović, Erika G. Spaich, Ole Kæseler Andersen, Design and test of a Microsoft Kinect-based system for delivering adaptive visual feedback to stroke patients during training of upper limb movement, Medical And Biological Engineering And Computing, November 2017, Volume 55, Issue 11, pp</p>

1927–1935 https://link.springer.com/article/10.1007/s11517-017-1640-z 10.1007/s11517-017-1640-z
M. Đurić-Jovičić, N. Jovičić, A. Roby-Brami, M. B. Popović , V. Kostić, A. Đorđević, Quantification of Finger-Tapping Angle Based on Wearable Sensors, Sensors , 17(2): 1-16, 2017, ISSN 1424-8220 , doi: 10.3390/s17020203 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5336005/pdf/sensors-17-00203.pdf
M. Đurić-Jovičić, I. Petrović, M. Ječmenica-Lukić, S. Radovanović, N. Dragašević-Mišković, M. Belić, V. Miler Jerković, M. Popović , V. Kostić, Finger tapping analysis in patients with Parkinson's disease and atypical parkinsonism, Journal Of Clinical Neuroscience , 2016, Vol. 30, pp. 49-55, ISSN: 0967-5868 http://dx.doi.org/10.1016/j.jocn.2015.10.053
Jasna Jančić, Nikola Ivančević, Blažo Nikolić, Mirjana Popović , Žarko Martinović, Dejan Stevanović, Marina Grbić, Vesna Đurić, Janko Samardžić, Visual evoked potentials - current concepts and future perspectives, Vojnosanitetski pregled (Military-medical and pharmaceutical review) , Vojnomedicinska akademija, Institut za naučne informacije, online first nov 2016, pp. 1 - 20, issn: 0042-8450, DOI: 10.2298/VSP160613342J http://www.doiserbia.nb.rs/img/doi/0042-8450/2018%20OnLine-First/0042-84501600342J.pdf
J. Sučević, A. Savić, M. Popović , S. Styles, V. Ković, Balloons and bavoons versus spikes and shikes: ERPs reveal shared neural processes for shape–sound-meaning congruence in words, and shape–sound congruence in pseudowords, Brain And Language , 2015, Vol. 145-146, pp. 11-22, ISSN: 0093-934X, http://dx.doi.org/10.1016/j.bandl.2015.03.011
S. Arsic, L. Konstantinovic, F. Eminovic, D. Pavlovic, M. Popović , V. Arsic, Correlation between the Quality of Attention and Cognitive Competence with Motor Action in Stroke Patients, Biomed Research International , 2015, Vol. 2015, No. Article ID 82313, pp. 1-8, 2015. ISSN: 2314-6133 http://dx.doi.org/10.1155/2015/823136
M. S. Isaković, N. Miljković, M. B. Popović , Classifying sEMG-based Hand Movements by Means of Principal Component Analysis, Telfor Journal , 2015, Vol. 7, No. 1, pp. 26-30, ISSN: 1821-3251 http://journal.telfor.rs/Published/Vol7No1/Vol7No1_A5.pdf
A. Savic, N. Malesevic, M.B. Popovic, Feasibility of a Hybrid Brain-Computer Interface for Advanced Functional Electrical Therapy, The Scientific World Journal , Volume 2014, Article ID 797128, 11 p., Hindawi Publishing Corporation, https://www.hindawi.com/journals/tswj/2014/797128/ ISSN: 1537-744X, http://dx.doi.org/10.1155/2014/797128
Milica D. Djurić-Jovičić, Nenad S. Jovičić, Saša M. Radovanović, Nikola D. Kresojević, Vladimir S. Kostić, Mirjana B. Popović , Quantitative and qualitative gait assessments in Parkinson's disease patients, Vojnosanitetski pregled , 2014, pp.12, ISSN: 0042-8450 http://dx.doi.org/10.2298/VSP130422012D
Miloš Kostić, Mirjana B. Popović , Dejan B. Popović, A method for assessing the arm movement performance: probability tube, Medical and Biological Engineering and Computing , 2013, 51:1315-1323, ISSN: 0140-0118, http://dx.doi.org/10.1007/s11517-013-1104-z
Stevo Lukić, Žarko Čojbašić, Nebojša Jović, Mirjana Popović , Bojko Bjelaković, Lidija Dimitrijević, Ljiljana Bjelaković, Artificial neural networks based prediction of cerebral palsy in infants with central coordination disturbance, Early Human Development , 2012, 88(7): 547-553, ISSN: 0378-3782, http://dx.doi.org/10.1016/j.earlhumdev.2012.01.001
Dejan B. Popović, Mirjana B. Popović , Advances in the use of electrical stimulation for the recovery of motor function, Progress in Brain Research , 2011, 194: 215-225, ISSN: 0079-6123, 10.1016/B978-0-444-53815-4.0000
Lana Popović Maneski, Nikola Jorgovanović, Vojin Ilić, Strahinja Došen, Thierry Keller, Mirjana B. Popović , Dejan B. Popović, Electrical stimulation for the suppression of pathological tremor, Medical and Biological Engineering and Computing , 2011; 49(10): 1187-1193, ISSN: 0140-0118, http://dx.doi.org/10.1007/s11517-011-0803-6
Aleksandra Plavšić, Laslo Švirtlih, Aleksandra Stefanović, Stevan Jović, Aleksandar Đurović, Mirjana Popović , Effects of functional electrical therapy on upper extremity functional recovery in patients after stroke- our experience and future directions, Medicinski pregled (Medical Review) , 2011, 54(5-6):299-303, ISSN: 0025-8105, http://dx.doi.org/10.2298/MPNS1106299P
Mirjana B. Popovic , Milica Djuric-Jovicic, Saša Radovanovic, Igor Petrovic, Vladimir Kostic, A simple method to assess freezing of gait in Parkinson's disease patients, Brazilian Journal of Medical and Biological Research , 2010, 43(9):883 - 889, ISSN 0100-879X, http://dx.doi.org/10.1590/S0100-879X2010007500077
Biljana Lješević, Žarko Martinović, Mirjana Popović , Stevan Jović, Visual vs. quantitative electroencephalographic analysis in patients with and without posttraumatic epilepsy, Medicinski pregled (Medical Review) , 2010, 63(1-2):40–46 ISSN: 0025-8105, http://dx.doi.org/10.2298/MPNS1002040L
Lana Z. Popović, Tomislav B. Šekara, Mirjana B. Popović , Adaptive band-pass filter (ABPF) for tremor extraction from inertial sensor data, Computer Methods and Programs in Biomedicine , 2010, 99(3):298-305,

ISSN: 0169-2607, http://dx.doi.org/10.1016/j.cmpb.2010.03.018
Anka Mitrasinovic, Sandra Radak, Jovo Kolar, Nikola Aleksic, Petar Otasevic, Mirjana Popovic , Djordje Radak, Color Doppler Sonographic Evaluation of Flow Volume of the Internal Carotid and Vertebral Arteries After Carotid Endarterectomy, Journal Of Clinical Ultrasound , 2010, 38 (5): 238-243, ISSN: 0091-275, http://dx.doi.org/10.1002/jcu.20670
Dejan B. Popović, Mirjana B. Popović , New trends in neurorehabilitation of subjects with central nervous system lesions, Zdravinski Vestnik , 2010, 79(3): 296-301, ISSN: 1318-0347, review, http://szd.si/user_files/vsebina/Zdravinski_Vestnik/2010/marec/296-301.pdf
Simona Denisia Iftime Nielsen, Strahinja Došen, Mirjana B. Popović , and Dejan B. Popović, Learning Arm/Hand Coordination with an Altered Visual Input, Computational Intelligence and Neuroscience , 2010, vol. 2010, Article ID 520781, 12 pages, http://dx.doi.org/10.1155/2010/520781
Dejan B. Popović, Thomas Sinkjaer, Mirjana B. Popović , Electrical stimulation as a means for achieving recovery of function in stroke patients, Neurorehabilitation , 2009, 25 (1): 45-58, ISSN: 1053-8135, http://dx.doi.org/10.3233/NRE-2009-0498
Jovana Kojović, Milica Djurić-Jovičić, Strahinja Došen, Mirjana B. Popović , Dejan B. Popović, Sensor-driven four-channel stimulation of paretic leg: Functional electrical walking therapy, J Neurosci Meth , 2009, 181 (1): 100-105, ISSN: 0165-0270, http://dx.doi.org/10.1016/j.jneumeth.2009.04.005
Popović DB, Bijelić G, Miler V, Došen S, Popović MB , Schwirtlich L. Lumbar stimulation belt for therapy of low-back pain, Artificial Organs , 2009, 33(1):54-60 http://onlinelibrary.wiley.com/doi/10.1111/j.1525-1594.2008.00674.x/full
Popović DB, Popović MB , Automatic determination of the optimal shape of a surface electrode: Selective Stimulation, J Neurosci Meth , 2009, 178(1):174-181, http://www.sciencedirect.com/science/article/pii/S0165027008006778
Mijović B, Popović MB , Popović DB. Synergistic control of forearm based on accelerometer data and artificial neural networks. Braz J Med Biol Res , 2008, 41(5):389-97, http://www.scielo.br/scielo.php?script=sci_arttext&pid=S0100-879X2008000500007&lng=en&nrm=iso
Popović MB , Dzoljic E, Kostic V. A Method to Assess Hand Motor Blocks in Parkinson's Disease with Digitizing Tablet. Tohoku J Exp Med , 2008, 216(4):317-324 , https://www.jstage.jst.go.jp/article/tjem/216/4/216_4_317/article
Popović -Bijelić A, Bijelić G, Jorgovanović N, Bojanic D, Popović DB, Popović MB , Multi-field surface electrode for selective electrical stimulation, Artificial Organs , 2005, 29(6):448-452, http://onlinelibrary.wiley.com/doi/10.1111/j.1525-1594.2005.29075.x/full
Iftime SD, Egsgaard LL, Popović MB . Automatic Determination of Synergies by Radial Basis Function Artificial Neural Networks for Control of a Neural Prosthesis, IEEE T Neur Sys Reh , 2005, 13(4): 482-489, http://ieeexplore.ieee.org/document/1556605/
Eder C, Popović MB , Popović DB, Stefanović A, Schwirtlich L, Jović S. The drawing test: a tool for assessing motor coordination in post-stroke hemiplegic subjects. Arch Phys Med Rehab , 2005, 86(2):289-295, http://www.archives-pmr.org/article/S0003-9993(04)00658-6/fulltext
Micera S, Carpaneto J, Posteraro F, Cenciotti L, Popović MB , Dario P. Characterization of upper arm synergies during reaching tasks in subjects affected by neurological disorders, Clin Biomech , 2005, 20(9): 939-946, http://www.clinbiomech.com/article/S0268-0033(05)00144-0/fulltext
Popović MB , Popović DB, Schwirtlich L, Sinkjær T. Clinical Evaluation of Functional Electrical Therapy (FET) in Chronic Hemiplegic Subjects. Neuromodulation , 2004, 7(2):133-140
Popović DB, Popović MB , Sinkjær T, Stefanović A, Schwirtlich L. Neuroprosthesis for therapy of paretic arm in hemiplegic subjects: A cross-over study. Can J Physiol Pharm , 2004, 82(8-9):749-756, http://www.nrcresearchpress.com/doi/pdf/10.1139/y04-057
Popović MB , Popović DB, Sinkjær T, Stefanović A and Schwirtlich L. Clinical Evaluation of Functional Electrical Therapy in Acute Hemiplegic Subjects. J Rehabil Res Dev , 2003, 40(5):443-54 https://scholar.google.com/citations?user=Zju4TDUAAAJ
Popović MB . Control of Neural Prostheses for Grasping and Reaching. Med Eng Phys , 2003, 25(1): 41-50, http://www.medengphys.com/article/S1350-4533(02)00187-X/fulltext
Popović DB, Popović MB , Sinkjær T. Neurorehabilitation of upper extremities in humans with sensory-motor impairment, Neuromodulation , 2002, 5(1):54-67, http://onlinelibrary.wiley.com/doi/10.1046/j.1525-1403.2002.2009.x/full
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