

Professor Marian-Silviu Poboroniuc

List of published papers (selected):

1. **Poboroniuc M. S.**, Naaji, A., Ligusova, J., Grout, I., Popescu, D., Ward, T., Grindei, L., Ruseva, Y., Bencheva, N. & Jackson, N. (2017). **ICT security curriculum or how to respond to current global challenges**. World Journal on Educational Technology: Current Issues. Vol.9(1), 39-48, 2017, DOI: <https://doi.org/10.18844/wjet.v9i1.916>., indexed EBSCO.
2. Curteza A., Cretu V., Macovei L., **Poboroniuc M. S.**, 2017, **The analysis of some sewed heating textile elements**, J. Fashion Technology&Textile Eng., 5:2, pp.1-5, DOI: 10.4172/2329-9568.1000150.
3. Grigoras V.-A., Irimia D.C., **Poboroniuc M. S.**, Popescu C.D., 2016, **Testing of a Hybrid FES-Robot Assisted Hand Motor Training Program in Sub-Acute Stroke Survivors**, Advances in Electrical and Computer Engineering, Vol.16, Issue No.4, 30.11.2016, pp. 89-94, ISSN: 1582-7445, e-ISSN: 1844-7600, Digital Object Identifier: 10.4316/AECE.2016.04014, article - indexed WOS ISI.
4. Irimia D.C., Sabathiel N., Ortner R., **Poboroniuc M.**, Coon W., Allison B.Z., Guger C., **recoveriX: A new BCI-based technology for persons with stroke**, EMBC2016, 16-20 August 2016, USA, DOI: 10.1109/EMBC.2016.7590995.
5. Curteza A., Cretu V., Macovei L., **Poboroniuc M. S.**, 2016, **The Manufacturing of Textile Products with Incorporated Electrodes**, AUTEX Research Journal, DOI: 10.1515/aut-2015-0049, AUTEX, ISSN 2300-0929 (On-line), Volume 16, Issue 1, pp.13-18.
6. **Poboroniuc M.S.**, Gheorghe Livint, F. Maciel Barbosa, Wojciech Mysiński, Anna Friesel, Bahar Karaoglan, Yoana Ruseva, Dorin Popescu, Tomislav Kilic, Tony Ward, Noel Jackson, Ian Grout. **Developing New Electrical and Information Engineering Related Curricula to Respond to the Actual Global Challenges: The Renewable Energy Curriculum**. Proceedings of the EAEEIE2015 conference, 1-2 July 2015, Copenhagen, Denmark.
7. Florin Serea, **Poboroniuc M. S.**, Sergiu Hartopanu, Danut Irimia, **Towards Clinical Implementation of an FES&Exoskeleton to Rehabilitate the Upper Limb in Disabled Patients**, 2015, International Conference on Control Systems and Computer Science (CSCS), May 2015, Bucharest, Romania, pp.827-832, DOI: 10.1109/CSCS.2015.114.
8. **Poboroniuc M. S.**, Irimia D.C., Popescu N., Popescu Dorin, **Engineered devices to support stroke rehabilitation**, in Proceedings of the 19th International Conference on Control Systems and Computer Science CSCS19, 29-31 May 2013, Bucharest, Romania, pp. 289-295, DOI 10.1109/CSCS.2013.44, Published by the IEEE Computer Society, ISBN: 978-0-7695-4980-4.
9. **Poboroniuc M. S.**, Cojocaru D., Livint G., Ward T., Cachia E., Bencheva N., **Preliminary Findings to Design EIE Curricula Harmonized to the Technical Global Challenges**, in Proceedings of the 24th EAEEIE Annual Conference, SALEIE workshop, Chania, Greece, 30 – 31 May, 2013, pp. 198-203, CD:9789609988957, DOI:10.1109/EAEEIE.2013.6576529, IEEE Conference publications, indexed IEEE Xplore.
10. Irimia D.C., Ortner R., Krausz G., Guger C., **Poboroniuc M.**, 2012, **BCI Application in Robotics Control**, 14th IFAC Symposium on Information Control Problems in Manufacturing, Bucharest, Romania, 23-25 May, 2012, Proceedings Volumes by Elsevier Ltd on IFAC-PapersOnLine.net, Information Control Problems in Manufacturing, Vol.14, Part.1, pp. 1-6, ISSN: 1474-6670; ISBN: 978-3-902661-98-2, Digital Object Identifier: 10.3182/20120523-3-RO-2023.00432, article – indexed SCOPUS.
11. **Poboroniuc M.**, Wood D.E., Riener R., Donaldson N.N., 2010, **A New Controller for FES-Assisted Sitting Down in Paraplegia**, Advances in Electrical and Computer Engineering (<http://www.aece.ro/>), Vol.10, No.4, November 2010, pp. 9-16, ISSN: 1582-7445, e-ISSN: 1844-7600, Digital Object Identifier: 10.4316/AECE.2010.04002, Edited by Stefan cel Mare University of Suceava, Romania, **indexed ISI**.
12. Curteza A., Macovei L., Cretu V., **Poboroniuc M. S.**, Kalaoglu F., Karakas H., Gorgun B., **Designing functional products for persons with neuromotor diseases**, The XV-th International Conference of Inventics "INVENTICA 2011", June 8-10, 2011, Iasi, Romania, INVENTICA2011 BOOK, Edited by Performantica Publishing House, Iasi, pp.548-555, ISSN: 1844-7880, **Awarded with gold Medal, Diplom awarded by International Salon of Inventions and New Technologies "NEW TIME" from Sevastopol, Ukraine.**
13. Popescu D., Popescu N., **Poboroniuc M.**, 2010, **The FPGA implementation of a neurostimulator**, Studies in Informatics and Control Journal (Useful Applications and Advanced Technology), Vol.19, Issue 1, March 2010, pp.85-92, ISSN 1220-1766, Edited by National Institute for R&D in Informatics ICI Bucharest, **indexed ISI**.
14. Ignat B., Duca A., Bohotin V., **Poboroniuc M.**, Popescu C.D., 2009, **The effect of a short functional electrical stimulation training programme on gait parameters in chronic stroke survivors**, Romanian Journal of Neurology/ Revista Romana de Neurologie, Volume 9, Issue 1, 2009, Pages 21-27, ISSN: 1843-0783, **(article, indexed in SCOPUS)**.
15. **Poboroniuc M.**, Petrescu M., Stefan M-C, Livint G., 2009, **Different robotic structures aiming to help in testing neuroprosthesis control strategies**, RAAD2009 Program and Book of Abstracts, PRINTECH

Publishing House, ISBN 978-606-521-315-9, pp. 99, Proc. of the 18th Int. Workshop on Robotics in Alpe-Adria-Danube Region, CD - ISSN 2066-4745, pp.1-6 and **VENTIL Journal** (Revijaza FLUIDNO TEHNIKO, AVTOMATIZACIJO IN MEHATRONIKO), edited by University of Ljubljana, Ventil 15/ 2009/6, pp.510-515, ISSN 1318-7279 (*indexed in INSPEC database*).

16. **Poboroniuc M. S.**, Stefan C.M., Livint Gh., Irimia D.C., **Issues on mechatronic devices aiming to test neuroprosthesis**, in Proceedings of the 2009 Advanced Technologies for Enhanced Quality of Life - AT-EQUAL 2009, July 22-26, 2009, Iasi, Romania, IEEE Computer Society Order Number P3753, pp.23-27, ISBN-13: 978-0-7695-3753-5, DOI 10.1109/AT-EQUAL.2009.16 - *indexed IEEE-Xplore*.
17. **Poboroniuc M.**, Stefan C., **EMULOBODY-a mechatronic device to test FES-based standing control strategies in paraplegia**, in Proceedings of the 13th Annual Conference of the International Functional Electrical Stimulation Society, September 21-25, 2008, Freiburg, Germany, Published in Biomedizinische Technik/Biomedical Engineering, Vol. 53 (2008), Supplement 1, pp. 168-170, ISSN 0939-4990.
18. **Poboroniuc M.**, Stefan C., 2008, **A method to test FES-based control strategies for neuroprostheses**, WSEAS-ICAI2008, The 9th WSEAS International Conference on Automation and Information, WSEAS Press, pp.344-349, Section Automation & Information: Theory and Advanced Technology, June 24-26, 2008, Bucharest, Romania, ISSN 1790-5117, ISBN: 978-960-6766-77-0 (*ISI Web of Knowledge & Web of Science*).
19. **Poboroniuc M.**, Kamnik R., Stefan C., Livint Gh., Lucache D., Bajd T., **New Experimental Results in Assessing and Rehabilitating the Upper Limb Function by Means of the Grip Force Tracking Method**, Proceedings of the 11th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON2007, 26-30 iunie 2007, Ljubljana, Slovenia, IFMBE proceedings 2007, vol.16, nr.2, ISSN 1727-1983, ISBN 978-3-540-73043-9 Springer Berlin Heidelberg New York, ISSN 1680-0737 Springer Science & Business Media, Germany, pp.954-957 (*in British library direct*, http://demo.viidea.com/medicon07_poboroniuc_ner/, *ISI Web of Knowledge & Web of Science*).
20. Kamnik R., **Poboroniuc M.**, Bajd T., Livint G., Lucache D., 2003, **Robot and FES technology for augmenting standing-up and sitting down capabilities**, IEEE International Conference on Industrial Technology, Maribor, Slovenia, December 10-12, 2003, pp.718-723, ISBN: 0-7803-7853-9, IEEE Catalog Number: 03TH8685C (DOI 10.1109/ICIT.2003.1290744 -*indexed IEEE-Xplore & INSPEC database & SCOPUS*).
21. **Poboroniuc M.**, Wood D., Donaldson, N., Fuhr, T., Riener, R., **Closed-Loop Control for FES-based Restoration of Standing in Paraplegia**, 2nd World Congress of the International Society of Physical and Rehabilitation Medicine-ISPRM, pp.201-204, Prague, Czech Republic, May 18-22, 2003, ISBN 88-323-3125-X. (*ISI Web of Knowledge & Web of Science*).
22. **M. Poboroniuc**, Gh. Livint, **Parallel robot trajectory modeling with neural networks**, Proceedings of fourth Groningen International Information Technology Conference for Students, 1997, 53-56, Groningen, Olanda;

Selected books and book chapters (most recent):

1. Nirvana Popescu, **Poboroniuc Marian**, Decebal Popescu, Danut Irimia, Alexandru Valer Grigoras, Intelligent system for after-stroke home rehabilitation (chapter 14), Book: Enhanced Living Environments: From models to technologies, Editors: R.I. Goleva, I. Ganchev, C. Dobre, N. Garcia, C. Valderrama, ch14: 345-365, published by IET Digital Library, Book DOI: 10.1049/PBHE010E, Chapter DOI: 10.1049/PBHE010E_ch, e-ISBN: 9781785612121, 2017.
2. **Poboroniuc M.**, Ward A., et al., Report on a survey of existing European Higher Education Programmes orientated to the Renewable Energies and ICT Securities Technical Challenges, SALEIE book chapter, pp.1-67, published by The University of York, Department of Electronics, Heslington, York, YO10 5DD, UK, ISBN 978-1-85911-032-4, February 2016.
3. **Poboroniuc M.** (joint author), Editors: V. Bobot, J.K. Borup, S.D. Ionascu, M. Vettensaari, S. Wintgen, How to build a robot (A step by step practical guide for students and teachers of secondary and high schools) (ROKEY project result – see www.rokey.eu web page); 99 pp., 2010, Edited by WEBPRINT s.r.o., Trencin, Slovak Republic, ISBN 978-80-970475-2-8 (Faculty of Electrical Engineering of Iasi acts as associate partner).