

Curriculum Vitae – Vladimir Petrović, M.Sc.E.E.

Personal

Name: Vladimir M. Petrović

Born: 16th of July 1987., Belgrade, Serbia

Citizenship: Serbia

Current position: Research Assistant, Department of Signals & Systems, Faculty of Electrical Engineering, University of Belgrade

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Education

<p>PhD studies (2012. – present)</p>	<p>Faculty of Electrical Engineering, University of Belgrade (www.etf.rs) <i>Department:</i> Signals & Systems <i>PhD field of research:</i> Robotics <i>Mentor:</i> Prof. Veljko Potkonjak, PhD</p>
<p>Master's degree (2011. – 2012.)</p>	<p>Faculty of Electrical Engineering, University of Belgrade (www.etf.rs) <i>Department:</i> Signals & Systems <i>Field:</i> Mechatronics, Control Systems & Signal Processing <i>Master thesis:</i> Analysis of actuators with passive compliance for humanoid robots <i>Mentor:</i> Prof. Veljko Potkonjak, PhD</p>
<p>Dipl. Ing. degree (2006. – 2011.)</p>	<p>Faculty of Electrical Engineering, University of Belgrade (www.etf.rs) <i>Department:</i> Signals & Systems <i>Field:</i> Mechatronics, Control Systems & Signal Processing <i>Diploma thesis:</i> Mathematical modeling of differential drive mobile robot kinematics <i>Mentor:</i> Prof. Veljko Potkonjak, PhD</p>
<p>High-school degree (2002. – 2006.)</p>	<p>Mathematical Gymnasium, Belgrade (www.mg.edu.rs , http://en.wikipedia.org/wiki/Matemati%C4%8Dka_gimnazija) <i>(School of special national importance - specialised for gifted and talented students in mathematics, physics and computer science.)</i> <i>Diploma thesis:</i> Prime numbers <i>Mentor:</i> Prof. Ninoslav Ćirić, PhD</p>

Work Experience/Career

<p>Nov 2012. - present</p>	<p>Research Assistant at Faculty of Electrical Engineering (Signals &</p>
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	Systems Department). (www.etf.rs)
Oct 2016. – Apr 2017.	<p>Project associate at:</p> <p><i>„Feasibility Study for Serbian Manufacturing Innovation Hub – FS4SMIH“</i></p> <p>(A six month project funded by ReconCell project, which is part of the I4MS initiative and Horizon2020 EU Framework Programme for Research and Innovation.)</p>
Jan 2013. - present	<p>Research Assistant at:</p> <p><i>“Research and Development of Ambient-Intelligent Service Robots with Anthropomorphic Characteristics”</i></p> <p>(Project funded by Serbian Ministry of Education, Science and Technological Development)</p>
May – June 2011.	<p>Internship in company Siemens d.o.o., Belgrade, Serbia (www.siemens.rs).</p>
Study visits/Specialisations	
<p>September 2016. (Dresden, Germany)</p>  <p>TECHNISCHE UNIVERSITÄT DRESDEN</p>	<p style="text-align: center;">TU Dresden (Dresden University of Technology) <i>Faculty of Medicine „Carl Gustav Carus“</i></p> <p>Within study visit, I have successfully completed Summer School on Technology Transfer, hosted by professor Stefan R. Bornstein. Among other, focus was on the following topics: Licensing, Spin-off, Protection of IP, Entrepreneurship, Venture Capital, etc.</p>
<p>September 2013. (Zurich, Switzerland)</p>  <p>Universität Zürich^{UZH}</p>	<p style="text-align: center;">University of Zurich <i>Department of Informatics, Artificial Intelligence Laboratory</i></p> <p>Within study visit, I have successfully completed <i>eSMCs Summer School 2013. „Embodiment and Morphological Computation“</i>, hosted by professor Rolf Pfeifer. Among other, focus was on the following topics: embodiment and morphology, active perception and sensorimotor contingencies, information theory, neuroscience of motor cognition, embodiment and awareness.</p>
<p>September 2014. (Belgrade, Serbia)</p>	<p style="text-align: center;">– <i>Danube Innovation Partnership Summer School on Knowledge and Technology Transfer</i> –</p> <p>Organiser: European Commission Joint Research Centre Co-organisers: WIPO, CTT of University of Belgrade, Intellectual Property Office of the Republic of Serbia</p> <p><i>Topics covered:</i> technology transfer and valuation of technologies, intellectual property and patent drafting, marketing and negotiations, technology licensing and spin-out.</p>
Research Interests	

General	Robotics, Artificial Intelligence, Virtual Environments, Mechatronics...
Awards and Scholarships	
2013.	ETRAN Award (for the best research paper in the field of Robotics and FMS, at the 57th ETRAN Conference).
1997. – 2006.	Won numerous awards in competitions in mathematics, physics, history and geography at all levels (local, regional and republic).
2002. – 2005.	Scholarship for the best students (Ministry of Education and Sport of the Republic of Serbia).
Publications	
International Journals:	<p>[1] V. Potkonjak, M. Gardner, V. Callaghan, P. Mattila, C. Guetl, V. Petrović, K. Jovanović, „Virtual Laboratories for Education in Science, Technology, and Engineering: a Review“, <i>Computers & Education (Elsevier)</i>, Vol. 95, pp. 309-327, 2016.</p> <p>[2] V. Antoska, K. Jovanović, V. Petrović, N. Baščarević, M. Stankovski, „Balance Analysis of the Mobile Anthropomorphic Robot Under Disturbances - ZMP Approach“, <i>International Journal of Advanced Robotic Systems (InTech)</i>, Vol. 10, Paper 206, pp. 1-10, 2013.</p>
International Conferences:	<p>[1] V. Petrović, B. Nikolić, K. Jovanović, V. Potkonjak, „Development of Virtual Laboratory for Mechatronic Systems“, <i>Advances in Robot Design and Intelligent Control (Proceedings of the 25th Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2016))</i>, Belgrade, Serbia, 2016., Springer International Publishing AG, pp. 622-630.</p> <p>[2] V. Potkonjak, V. Petrović, K. Jovanović, D. Kostić, „Human-Robot Analogy – How Physiology Shapes Human and Robot Motion“, <i>Advances in Artificial Life, ECAL 2013 (Proceedings of the twelfth European Conference on the Synthesis and Simulation of Living Systems)</i>, Taormina, Italy, September 2013., The MIT Press, pp. 136-143.</p> <p>[3] V. Potkonjak, K. Jovanović, V. Petrović, O. Holland, J. Uhomoihi, „Virtual Ambient for E-Learning in Engineering Sciences“, <i>Proceedings of the Conference of the International Journal of Arts and Sciences</i>, Valletta, Malta, March 2013., Vol. 6, No. 1, pp. 7-14.</p>
Serbian International Conferences:	<p>[1] V. Petrović, V. Potkonjak, „Analysis of Dynamics Based Software Simulators for Robotics Research“, <i>Proceedings of the 3rd International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2016)</i>, Zlatibor, Serbia, June 2016., ROI1.5 pp. 1-4.</p> <p>[2] V. Petrović, V. Kojić, A. Aleksić, M. B. Popović, V. Potkonjak, „A Biomechanical Approach of Fatigue Impact on Human Arm Kinematics in Repetitive Tasks“, <i>Proceedings of the 2nd International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2015)</i>, Silver Lake (Srebrno Jezero), Serbia, June 2015., ROI2.4 pp. 1-5.</p> <p>[3] V. Potkonjak, V. Petrović, „Survey of Virtual Laboratories and Virtual Environments with Emphasis on Applications in Robotics“, <i>Proceedings of the 1st International Conference on Electrical, Electronic and Computing Engineering (IcETRAN 2014)</i>, Vrnjačka Banja, Serbia, June 2014., ROI3.1 pp.</p>

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Serbian National Conferences:	[1] V. Petrović , K. Jovanović, V. Potkonjak, „ZMP Approach to the Critical Design of a Mobile Platform for the Semi-Anthropomorphic Robot“, <i>Proceedings of the 57th ETRAN Conference (ETRAN 2013)</i> , Zlatibor, Serbia, June 2013., RO1.1 pp. 1-6. (extended version also published in the <i>Serbian Journal of Electrical Engineering</i> , as invited paper)
Reviewer	
Journals:	- Journal of Intelligent and Robotic Systems (Springer) (ISSN: 0921-0296 (print version), ISSN: 1573-0409 (electronic version)) - International Journal of Automation and Computing (Springer) (ISSN: 1476-8186 (print version), ISSN: 1751-8520 (electronic version))
Conferences:	- 13th IEEE International Conference on Industrial Informatics (INDIN 2015), Cambridge, UK. - 25th IFToMM / IEEE International Conference on Robotics in Alpe-Adria-Danube Region (RAAD 2016), Belgrade, Serbia.
Activities	
Aug 2012. – present	Member of the ETF Robotics research group (http://robot.etf.rs)
July 2012. – July 2013.	Member of the EESTEC – Electrical Engineering Students’ European Association
Nov 2007. – present	Member of the MENSA – Serbia & Montenegro Publications in the MozaIQ (Serbian Mensa Bulletin): [1] V. Petrović , „Squaring the circle – number π problem“, <i>MozaIQ (Mensa Bulletin)</i> , No. 85, p. 25, November 2008. [2] V. Petrović , „Mersenne and perfect numbers“, <i>MozaIQ (Mensa Bulletin)</i> , No. 86, pp. 28-29, December 2008. [3] V. Petrović , „Fermat’s Last Theorem“, <i>MozaIQ (Mensa Bulletin)</i> , No. 87, pp. 42-43, March 2009. [4] V. Petrović , „Prime numbers“, <i>MozaIQ (Mensa Bulletin)</i> , No. 88, pp. 24-25, May/June 2009.
Other skills	
Languages:	English (full professional proficiency)
Computer skills:	C/C++, Pascal, Delphi, Prolog, Matlab & Simulink HTML, CSS, WordPress etc.
Driving license:	B