

PERSONAL INFORMATION

Michal Chovanec



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🔗 <https://hackaday.io/michalkenshin>

🐙 <https://github.com/michalnand>

💬 Google Talk michal.nand

Gender Male | Date of birth 3 August 1989 | Nationality Slovak

WORK EXPERIENCE

September 2016 – Present

Research on Faculty of management science and informatics

- Artificial intelligence and learning systems
- Deep reinforcement learning for GO game using dense CNN
- Dense net implementations on embedded system

2015 – 2016

Ceit group, Žilina

ZIMS department, robotics research and development

2012 – 2013

Scheidt&Bachmann, Žilina

Bahn department, railway security (solutions) systems (Visual C++ programming)

EDUCATION AND TRAINING

2013–2016

PhD - Thesis Title: Function approximation in Q learning algorithms using neural network

Faculty of management science and informatics, University of Žilina

2011–2013

Master degree - Thesis Title: Operational system for arm cortex-m3 (stm32)

Faculty of management science and informatics, University of Žilina

2007–2011

Bachelor degree - Thesis Title: FPGA audio player (Xilinx FPGA)

Faculty of management science and informatics, University of Žilina

PERSONAL SKILLS

Mother tongue Slovak

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](#)

Computer skills

- expert : C, C++
- intermediate : Python
- basic : Ruby, VHDL, Java
- tools : GNU GCC, G++, NVCC, Make, Gnuplot, Sublime, Atom, dfu-util
- technologies : NVIDIA Cuda, OpenMPI, OpenGL
- embedded technologies : ARM Cortex M0..M7 (stm32), msp430, avr
- other : real time systems, artificial intelligence, robotics, inertial navigation, controll theory, adaptive and learning systems

Interests

robotics (artificial intelligence, real time controll), outdoor (hiking, running, bouldering, caving, survival and critical situations), martial arts (archery, aikido, kenjutsu), music, yoga

Rewards

- 2016 : Istrobot Line Follower L2 cathegory first place (robotics competition)
- 2013 : Master degree with honors
- 2013 : Dean price for best diploma thesis
- 2013 : ACM Certificate Gallery of the best
- 2013 : Soit price for open sources diploma thesis, 3rd place
- 2011 : Dean price for best bachelor thesis

ADDITIONAL INFORMATION

Publications

2012 Preemptívny multitasking pre mikrokontroléry s jadrom ARM Cortex M3 Michal Chovanec. - 2012 In: *Otvorený softvér vo vzdelávaní, výskume a v IT riešeníach* S. 27-32 zborník príspevkov medzinárodnej konferencie OSSConf 2012 2.-4. júla 2013 Žilina, Slovensko Bratislava Spoločnosť pre otvorené informačné technológie 2012, ISBN 978-80-970457-2-2,
2013 Akcelerometrické meranie výstrelu z luku Michal Chovanec a Jaroslav Múčka. - 2013 In: *Otvorený softvér vo vzdelávaní, výskume a v IT riešeníach* S. 39-46 zborník príspevkov medzinárodnej konferencie OSSConf 2013 2.-4. júla 2013 Žilina, Slovensko Bratislava Spoločnosť pre otvorené informačné technológie 2013, ISBN 978-80-970457-3-9,
2013 Wireless sensor networks for intelligent transportation systems Michal Hodoň, Juraj Miček, Michal Chovanec. - 2013 In: *IEEE CommSoft E-Letters* Vol. 2, no. 1, (2013), online, s. 3-8 elektronický zdroj,
2013 Intelligent traffic-safety mirror, M. Hodon, M. Chovanec, M. Hyben, 2013 In: *Studia Informatica Universalis* - 2013, volume 11/1,
2014 Universal synchronization algorithm for wireless sensor networks - "FUSA algorithm" / Michal Chovanec ... [et al.] In: *FedCSIS : proceedings of the 2014 federated conference on Computer science and information systems : September 7-10, 2014, Warsaw, Poland*. - Los Alamitos; Warsaw: IEEE; Polskie Towarzystwo Informatyczne, 2014. - ISBN 978-83-60810-61-3. - S. 1001-1007,
2014 Tiny low-power WSN node for the vehicle detection [Jednoduchý energeticky-efektívny nód bezdôtovej senzorovej siete určený na detekciu automobilov] / Michal Chovanec, Michal Hodoň and Lukas Cechovic,
2014 Investigation of the gyro-sensor contribution to the straight movement of vehicle [Analýza vplyvu gyroskopického senzora pri priamom pohybe vozidla] / Michal Hodoň, Michal Chovanec,
2015 Required value classification using Kohonen neural network = Klasifikácia žiadanej hodnoty Kohonenovou neurónovou sieťou / Michal Chovanec. In: *Otvorený softvér vo vzdelávaní, výskume a v IT riešeníach : zborník príspevkov medzinárodnej konferencie OSSConf 2015 : 1.-3. júla 2015 Žilina, Slovensko*. - Žilina: Žilinská univerzita, 2015. - ISBN 978-80-970457-7-7,
2016 Water level monitoring based on the acoustic signal using the neural network / Veronika Olesnanikova, Karpiš Ondrej, Chovanec Michal, Šarafin Peter, Žalman Róbert In: *Information and digital technologies 2016 proceedings of the international conference : 5-7 July 2016 Rzeszow, Poland*. - [S.l.]: IEEE, 2016. - ISBN 978-1-4673-8860-3,
2016 Aeris Robots Laboratory with Dynamic Environment / Michal Chovanec, Lukáš Čechovič, Lukáš Mandák, *Robotics in Education Research and Practices for Robotics in STEM Education* ISBN: 978-3-319-42974-8 (Print) 978-3-319-42975-5 (Online), pages 169-180