Valentyn N. Sichkar

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Profile

First year PhD student at ITMO University in "Informatics and Computer Science" program. Currently seeking doctoral degree in computer science. Working on autonomous mobile robots and vehicles, machine learning, pattern recognition, computer vision. Head of the group of International Master Program in Polytech during 2016-2018. Have initiative and can work independently or as part of a team. Get on well with people at all levels, easily making good working relationships. Adaptable and quick to learn new skills.

Education

2018-2022
St. Petersburg National Research University of Information Technologies, Mechanics and Optics, Saint-Petersburg, Russia
Department of Mechatronics
PhD student

2016-2018
Peter the Great Saint-Petersburg Polytechnic University, Saint-Petersburg, Russia
School of Cyber-Physical Systems and Control
Master's degree in Intelligent Systems, International program in English
Diploma with honors
Winner of Vladimir Potanin Foundation in 2017

Following individual projects were done (can be seen on 'pinned' repositories on GitHub https://github.com/sichkar-valentyn):

- Development and construction of mobile robotic platform with Ultrasonic sensors.
- Development software user interface for intelligent control of mobile robot.
- Development of Knowledge Based Alarm-Warning system for collision avoidance.
- Implementing Reinforcement Learning algorithms for global path planning.

Final project: 'Intelligent navigation system of mobile robot'.

Following scientific article was written:

- Sichkar V.N. Comparison analysis of knowledge based systems for navigation of mobile robot and collision avoidance with obstacles in unknown environment. St. Petersburg State Polytechnical University Journal. Computer Science. Telecommunications and Control Systems. Vol. 11, No. 2

2015-2016
Cherkassy State Technological University, Cherkassy, Ukraine
Computer Science department
Specialist's degree in Information Technologies of design
Diploma with honors

2000-2004
Cherkassy State Technological University, Cherkassy, Ukraine
Computer Science department
Bachelor's degree in Manufacturing automation
Diploma with honors

IT Skills

Programming Languages: Python, C#, HTML.
Development tools: Matlab, Mathcad.
Operating Systems: Windows, Linux Ubuntu, Android.

Other training/skills

Online courses on Programming Languages, Artificial Intelligence, Deep Learning, Machine Learning, English:
- https://stepik.org/users/35895867
- https://coursera.org/user/72ef0f6ed5eda3e8392acab67d015733
- https://geekbrains.ru/users/2533521

Languages: English, Russian, Ukrainian.

Employment

2006-2015 Cherkassy, Ukraine
Self-employed as an entrepreneur in the field of recycling plastic materials, leadership on the small business team. Duties involved market control, negotiating with customers, including with foreign customers, human resources control, logistics management.

Interests

- Organization entertainment events for foreign students in Saint-Petersburg (can be seen at photo albums on http://vk.com/ValentynSichkar).
- Swimming, riding, skating, keep fit.
- Playing chess as I'm sure it improves ability to think strategically (can be seen on https://lichess.org/@/valik123).

References

References available on request.