Denys Rozumnyi

Curriculum Vitae

Prague
Czech Republic
☏ *+420 730 976 561*
✉ *rozumden@cmp.felk.cvut.cz*
⌂ *cmp.felk.cvut.cz/∼rozumden*

Education

Jul 2017 – Present	**Czech Technical University in Prague**, *Master of Science*, Specialisation: Computer Vision and Image Processing, Minor Specialisation: Artificial Intelligence.
Sep 2014 – Jun 2017	**Czech Technical University in Prague**, *Bachelor of Science (with honours)*, Specialisation: Computer Science, Minor Specialisation: Mathematics, Weighted Average Grade: 1.08.
Sep 2016 – Jan 2017	**Swansea University, Wales, UK**, *Erasmus Programme, Computer Science*.
Aug 2015	**Vision and Sports Summer School**, *in Prague, Czech Republic*.

Bachelor Thesis

Title	*Tracking, Learning and Detection over a Large Range of Speeds*
Supervisor	prof. Jiří Matas
Description	This thesis is based on combining standard "slow-motion" tracker and the FMO tracker [3].

Work Experience

Aug, Sep 2017	**Summer Internship**, *Tampere University of Technology*, Tampere, Finland. Creating demo for fast moving objects detection. Supervisor: prof. Jiří Matas, prof. Joni Kämäräinen.
Sep 2016 – Present	**Research Intern**, *Center for Machine Perception*, CTU in Prague, Czech Republic. Topic: Detection and tracking of fast moving objects [2]. Supervisor: prof. Jiří Matas.
Jul 2016 – Aug 2016	**Summer Internship**, *Tampere University of Technology*, Tampere, Finland. Topic: Detection and tracking of fast moving objects [2]. Supervisor: prof. Jiří Matas.
Sep 2014 – Jun 2016	**Research Intern**, *Center for Machine Perception*, CTU in Prague, Czech Republic. Topic: Coplanar repeated patterns detection in images [1]. Supervisor: James Pritts, Ondřej Chum.

Programming Skills

Advanced	MATLAB, C++, JAVA
Intermediate	BASH, LaTeX, MySQL
Basic	PYTHON, PROLOG, LISP, HASKELL

Demos and talks

Sep 2017	Tampere University of Technology (TUT), Tampere, Finland. Demo showing and explaining fast moving objects detection for campus visitors, during exhibitions or lectures. Sponsored by TUT.
23.07.2017	IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2017, Honolulu, Hawaii. Presented demo on fast moving objects.
14.06.2017	OI IntrO – introduction of Open Informatics programme in CTU for interested students. Presentation and demo on topic of fast moving objects.
26.04.2017	Enable-S3: WP3.1 Machine Learning Workshop in Prague – talk about fast moving objects at a small conference for professionals in the field of autonomous driving.

Awards

Nov 2017	**Josef Hlávka's Award** (Cena Josefa Hlávky) – a highly prestigious award for best students and graduates in the Czech Republic. Awarded by The Foundation of Josef, Marie and Zdeňka Hlávka, the oldest Czech foundation established in 1904.
Aug 2017	**Dean's Award** for an exceptional bachelor thesis, Faculty of Electrical Engineering, Czech Technical University in Prague.
Aug 2017	Bachelor degree with distinctions.
2014–2017	Stipends for excellent study results.

Languages

Fluent	**English, Czech**
Native	**Ukrainian, Russian**
Basic	**French, German**

Publications

[3] D. Rozumnyi. *Tracking, Learning and Detection over a Large Range of Speeds*. Bachelor thesis, Czech Technical University in Prague. URL: `https://dspace.cvut.cz/handle/10467/70179`.

[2] D. Rozumnyi, J. Kotera, F. Šroubek, L. Novotný, J. Matas. *The World of Fast Moving Objects*. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2017, Honolulu, Hawaii. URL: `http://openaccess.thecvf.com/content_cvpr_2017/html/Rozumnyi_The_World_of_CVPR_2017_paper.html`, Website: `http://cmp.felk.cvut.cz/fmo`

[1] J. Pritts, D. Rozumnyi, M. P. Kumar, O. Chum. *Coplanar Repeats by Energy Minimization*. In 27th British Machine Vision Conference (BMVC) 2016, York, England. URL: `http://www.bmva.org/bmvc/2016/papers/paper107/index.html`