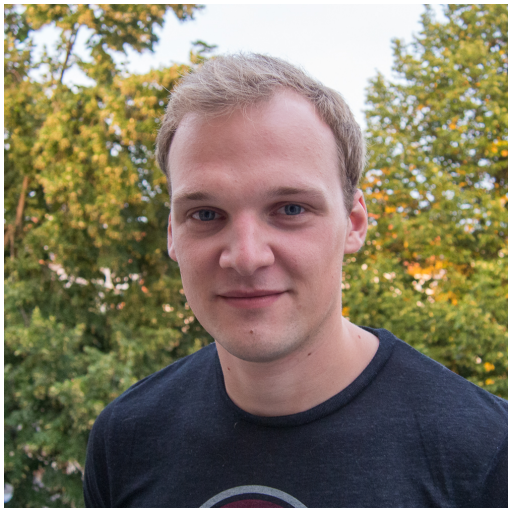

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Igor Bogoslavskyi

PhD Candidate

About me

I am a PhD student at the lab for photogrammetry at the University of Bonn led by Prof. Dr. Cyrill Stachniss. Before moving to Bonn, I have finished my Master of Science studies at the University of Freiburg in Germany in 2011 and Bachelor of Science in Ukraine in 2007. During my master studies I was working as a lab assistant on the ROVINA project in AIS laboratory led by Prof. Dr. Wolfram Burgard. My current interests lie in scene interpretation, outdoor perception and navigation for mobile robots.

Experience

2014 — Present, PhD candidate, Photogrammetry lab
Rheinische Friedrich-Wilhelms University Bonn, Germany

- I am now a PhD candidate in the institute of Geodesy, Geoinformation and Cartography at the University of Bonn. My advisor is Prof. Dr. Cyrill Stachniss.

2012 — 2014, Assistant, AIS lab
Albert Ludwigs University of Freiburg, Germany

- As an assistant in the Autonomous Intelligent Systems lab at Uni Freiburg, I dealt with Kinect RGBD sensors mounted onto various platforms. I have implemented traversability analysis for a mobile robot as part of ROVINA project. The developments in this project let to a publication at ECMR'13.

2012 — 2013, Assistant, HRL lab
Albert Ludwigs University of Freiburg, Germany

- As an assistant in the Humanoid Robots Lab at Uni Freiburg, I dealt with Kinect RGBD sensors mounted onto the NAO robot platform and have implemented a system that detected human pointing gestures generating a goal for a robot.

2011 — 2012, Tutor, Image Processing course
Albert Ludwigs University of Freiburg, Germany

- During my first semester at Freiburg University I have been tutoring at the chair of Computer Vision and Image Processing. My task was to help my fellow students to accomplish the course programming assignments.

2010 — 2011, Junior Software Developer
Timecode LLC, Kyiv, Ukraine

- worked as part of a team on a game for Android platform. Java Android programming, OpenGL.
- worked as part of a team on an Online Content Store controlled via Kinect sensor. C#.

I Mostly Code In:

- C++
- Python
- Java
- Matlab/Octave

Languages

- English (IELTS 8.0)
- German (B2+)
- Russian (Native)
- Ukrainian (Native)

Honors and Awards

MINT Excellence Network Member

- I was chosen as one of 300 best applicants across Germany to the MINT Excellence Network.
  The candidates were chosen from the students who work in the fields of Math, Computer Science, Natural Sciences and Tech across Germany.

Fields Of Interest

- Probabilistic Robotics
- Autonomous Outdoor Navigation
- Scene Interpretation
- Dynamics Detection
- Machine Learning
- SLAM

Education

2014 — Current, Friedrich-Wilhelms-Universität Bonn
PhD candidate in photogrammetry and mobile robotics.

2011 — 2014, Albert-Ludwigs-Universität Freiburg
MSc. Applied Computer Science. Final grade: excellent.

2007 — 2011, Kyiv National Taras Shevchenko University
BSc. Faculty of Cybernetics. Applied Math.
Chair of Computational Methods.

2004 — 2007, Lyceum 145, Kyiv, Ukraine
Higher basic education certificate, Mathematics, Physics.

Notable Projects

2012 — 2016, ROVINA

- Presents an autonomous robot for underground exploration.
- Components implemented by me in C++:
  - traversability analysis for the robot.
  - a robust homing algorithm to return robot home.
  - most of exploration and navigation stack of the robot.
- Project has received excellent reviews from EU commission.
- My papers were accepted to ECMR'13 and ICRA'16.

2016 — Current, EasyClangComplete

- A plugin for Sublime Text for C/C++ code completion.
- Code: https://github.com/niosus/EasyClangComplete

First Author Publications

Fast range image-based segmentation of sparse 3d laser scans for online operation

- Presented at IROS 2016.
- An approach to segment single Velodyne-produced point clouds much faster then sensor frame-rate.
- Code: https://github.com/niosus/depth_clustering

Robust homing for autonomous robots

- Presented at ICRA 2016.
- A robust homing approach for an autonomous robot exploring underground environments.

Where to Park? Minimizing the Expected Time to Find a Parking Space

- Presented at ICRA 2015.
- A Markov Decision Processes (MDP) based approach to minimize the expected time to find an empty parking spot and reach the goal by foot.

Efficient Traversability Analysis for Mobile Robots using the Kinect Sensor

- Presented at ECMR 2013.
- A fast and reliable traversability analysis algorithm for a robot operating in underground environments.

References

References upon request.