# Yury Denisov (優里)

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**Lab**: Assistive Robotics Group
NCTU Kuang-Fu Campus EE B51

## Research Interests

Computer Vision (CV),
Autonomous Mobile Robots (AMR),
Autonomous Surface Vehicles (ASV)

## Technical Skills

Network and Computer System Administration (Linux, Asterisk IP PBX),
Computer Aided Design (SolidWorks, Altium Designer, Proteus),
Programming (C/C++, Python, Object Pascal, SQL, MatLAB, LabView)

## Education

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| 02.2015 – 07.2016 | National Chiao Tung University (NCTU EECS IGP Program)<br>*MS. In Electrical Engineering and Computer Science*<br>*MOE Taiwan Government Scholarship recipient* |
| 07.2014 – 07.2014 | Gateway Language Village (GLV), Hangzhou, China<br>*Teaching English as Foreign Language Training* |
| 09.2013 – 06.2014 | Guangdong University of Foreign Studies, Guangzhou, China<br>*Chinese Language Course* |
| 09.2005 – 07.2010 | Ural Federal University, Institute of Radioelectronics and Information Technologies (IRIT), Department of Telecommunication Engineering, Yekaterinburg, Russian Federation<br>*Specialist Degree in Telecommunication Engineering* |

## Working Experience

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| 02.2015 – 07.2016 | Ekaterinburg-2000 (MOTIV) Telecommunication Company, Russia<br>*Software Engineer* |
| 10.2012 – 04.2013 | Elmash UETM Factory, Yekaterinburg, Russia<br>*Supply Manager* |
| 10.2010 – 02.2012 | Ekaterinburg-2000 (MOTIV) Telecommunication Company, Russia<br>*Telecommunication Engineer (simultaneously with previous job)* |
| 09.2009 – 10.2012 | Ural Federal University<br>*Teaching Assistant* |

# Research Experience

1. **Routing in Mesh Networks (2008-2009)**.
   *Research project. Advisor – prof. Lidskiy E.A*
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   This research was focused on routing in mesh networks with static, non-mobile nodes, with the goal to minimize routing costs for message transporting. The basic idea was to find smallest possible loops in such networks, and use these loops as a basic element to create routing algorithms. This research led to a participation in two conferences (local "Svyazprom-2008", Yekaterinburg, and international "INNOVATIKA-2008", Sochi).

2. **Creating a laboratory stand for studying Hall Effect (2009)**.
   *Teaching assistance project. Advisor – prof. Ivanov V.E.*

   The goal of this project was to create a laboratory stand to demonstrate and research Hall Effect for "Metrology and Measurements" teaching laboratory. The stand consisted of an AVAGO AEAT-6012 encoder, an LPC21XX development board and a LabView virtual device. The stand was presented on 8$^{th}$ NI Technologies annual conference in Moscow.

3. **Developing of perimeter access guarding system based on optical fiber (2010)**
   *Thesis research project, Advisor – prof. Malygin I.V.*

   In this project, the prototype of a perimeter guarding system which used optical fiber as a sensor element was created. The system consisted of a laser source, optical fiber setup with several optical splitters and two optical power measurement devices. When an intruder touches or even steps on the optical fiber, optical power in it changes, and it's possible to detect the "intrusion" event. Splitters with uneven splitting parameters were used to separate whole detection area into zones. If no zone splitting is needed, only one optical power meter is enough, and splitters don't need to be used at all, which gradually reduces the overall cost of a system.

# Publications

***Conference presentations:***


[C1] Y. Denisov, E. Lidskiy, "Cost minimization when a message is transported in a big network", System Problems of Reliability, Quality, Mathematical Modelling, Information and Electronic Technologies in Management of Innovation Projects (INNOVATIKA-2008) Conference Thesis Compilation vol. 2, p. 99, 2008

[C2] A. Gusev, Y. Denisov, V. Ivanov, "Studying of Hall Effect using the LabView based laboratory stand and AVAGO AEAT-6012 encoder", 8$^{th}$ Educational, Scientific and Engineering applications in LabView and National Instrument Technologies conference thesis compilation, p. 385, 2009