

YAROSLAV MELEKHOV

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EDUCATION

University of Oulu

June 2015 - Present

Ph.D. Computer Science

Thesis advisor: Juho Kannala

Courses: Deep Convolutional Neural networks

St.Petersburg Electrotechnical University "LETI"

April 2014

Ph.D. in location and radar navigation

Thesis advisor: Vladimir K. Orlov

Theme: "Analysis and development algorithms of joint information processing in relative navigation"

St.Petersburg Electrotechnical University "LETI"

June 2010

M.S. in Radio Engineering

Thesis advisor: Alexander B. Sergienko

Theme: "Non-coherent digital modulation classification in fading channels"

Overall GPA: 4.95 (5.0)

St.Petersburg Electrotechnical University "LETI"

June 2008

B.S. in Radio Engineering

Thesis advisor: Denis I. Vezhenkov

Theme: "The review of methods of classification OFDM"

Overall GPA: 4.89 (5.0)

EXPERIENCE

Research and Development Center Protei

April 2014 - December 2014

Software researcher & developer

St.Petersburg, Russia

- Redesigned a traffic management platform with deep packet inspection (DPI) capabilities;
- Implemented leaky (token) bucket algorithms to control peak and average data rate.

JSC VNIIRA

September 2011 - April 2014

Software developer

St.Petersburg, Russia

- Aircraft trajectory prediction module on the basis of the current flight state, environmental conditions and AC characteristics was developed from scratch.

JSC Vector

September 2009 - April 2011

Software developer

St.Petersburg, Russia

- Developed DQPSK, GMSK demodulator;
- Implemented Viterbi equalizer using MATLAB/C++.

St. Petersburg Electrotechnical University LETI

September 2006 - July 2009

Research intern

St.Petersburg, Russia

- Processing of OFDM signals, methods of synchronization;
- Non-coherent classification algorithms of digital signals in fading channels were implemented.

PUBLICATIONS

- **Relative coordinates estimation under correlated measurement errors**
Y.Melekhov, V.Orlov
- **Comparative analysis of multi-sensor fusion algorithms of relative distance estimation**
Y.Melekhov, V.Orlov
- **Performance of multi-sensor fusion algorithms of relative distance estimations with missing measurements**
Y.Melekhov, V.Orlov
- **Output distance estimation in relative navigation of air vehicles for non linear measurements of coordinates**
Y.Melekhov, V.Orlov

TECHNICAL STRENGTHS

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|-----------------------------------|---|
| Programming Languages | C/C++, Matlab, Java, Python |
| Libraries & Frameworks | stl, boost, Caffe, Qt |
| Concepts | OOA/OOD (Design Patterns), Multithreading/Multiprocessing |
| Systems | Unix (Centos), Arch, OpenSUSE |
| Publishing | LATEX, TEX |

HONORS AND AWARDS

- International Computer Vision Summer School (ICVSS), statement of accomplishment July, 2015
- Internship at Dresden University of Technology, 2010

LANGUAGES

- Fluent written and verbal English
- Basic knowledge of German
- Fluent in Russian