| University | Peter the Great St.Petersburg Polytechnic University |
|------------------------------------|---|
| Level of English proficiency | Intermediate (B1) |
| Educational program and field of | ENGINEERING &TECHNOLOGY |
| the educational program for | 2.1.13. Radio engineering, including television systems and |
| which the applicant will be | devices |
| accepted | |
| List of research projects of the | 2010 – Development of methods and algorithms for signal |
| potential supervisor | processing and analysis for wireless LTE systems; |
| (participation/leadership) | 2012 – Development of the special software for analysis of technical characteristics of OFDM signals; |
| | 2012 – Development of methods and algorithms for signal |
| | processing and analysis for wireless TD SCDMA systems; |
| | 2012 – Development of the software module for measuring of |
| | signal modulation characteristics; |
| | 2013 – The personal satellite communication system based on |
| | satellite transponders located in geostationary orbit; |
| | 2013 – Research and development of algorithms for location of |
| | radiation sources in telecommunication networks; |
| | 2013 – Improved algorithm for spectrum envelope estimation of |
| | the speech signal; |
| | 2014 – Improved algorithm for the parameterization of speech in the task of recognition of Conjoint Russian speech. |
| List of the topics offered for the | Speech, audio and image processing; Systems and devices for |
| prospective scientific research | signal processing. |
| | 2.02. Electrical eng., electronic eng. |
| | Supervisor's research interests |
| | Statistical radio engineering, Digital signal processing, |
| | Information theory. |
| | Supervisor's specific requirements: |
| | Writing of scientific papers, participation in projects, conferences |
| | and seminars. |
| | Supervisor's main publicationsGelgor, A. Gorlov, E. Popov. Improving Energy Efficiency |
| | of Partial Response Signals by Using Coded Modulation. 3rd |
| | International Black Sea Conference on Communication and |
| | networking. May 18–21, 2015. Constanta, Romania. |
| Research supervisor: | • Gelgor, A. Gorlov, E. Popov. Multicomponent Signals for |
| | Bandwidth-Efficient Single-Carrier Modulation. 3rd |
| Eugene A. Popov | International Black Sea Conference on Communication and |
| PhD | networking. May 18–21,2015. Constanta, Romania |
| | • Gelgor, A. Gorlov, E. Popov. On the Synthesis of Optimal |
| | Finite Pulse for Bandwidth and Energy Efficient Single- |
| | Carrier Modulation. Internet of Things, Smart Spaces, and |
| | Next Generation Networks and System. 15th International Conference, NEW2AN 2015 and 8th Conference, ruSMART |
| | 2015, St. Petersburg, Russia, August 26–28, 2015, |
| | Proceedings |
| | • Gelgor, A. Gorlov, P. Ivanov, E. Popov A. Arkhipkin, T. |
| | Gelgor. Improving BER Performance of Uplink LTE by |
| | Using Turbo Equalizer. Smart Spaces, and Next Generation |
| | |

- Networks and System. 15th International Conference, NEW2AN 2015 and 8th Conference, ruSMART 2015, St. Petersburg, Russia, August 26–28, 2015, Proceedings
- Дворников С.В., Крячко А.Ф., Попов Е.А. Дворников С.С., Томашевич С.В. Компенсация структурных помех в радиочастотных каналах управления робототехнических систем. Радиотехника, 2021, № 11.
- Савищенко Н.В., Исса А. Ишимов А.С. Попов Е.А. Расчёт вероятности ошибки в канале с обобщёнными кm-замираниями и аддитивным белым гауссовским шумом. Радиотехника 2023, № 3.

Results of intellectual activity

Development of telecommunication support for the intelligent transport system of St. Petersburg

Development of a multichannel device for delivery, visualization and storage of auditory diagnostic signals for unconditionally reflex audiometry