


University	Saint Petersburg Electrotechnical University "LETI"
Level of English language proficiency	Fluent in spoken and written English
The direction of training for which the graduate student will be accepted	System Analysis, Management and Information Processing Computer Systems Engineering and Informatics
List of research projects of a potential supervisor (participation/guidance)	1) Development and research of methods for filtering signals and methods for real-time identification of parameters of a system of differential equations to simulate the operation of complex dynamic systems, 2015, Participant 2) Development of algorithms and software for the ship's heading control system, 2019-2020, Participant 3) Development of algorithms and software for the ship's coordinated control system, 2020, Participant
List of possible research topics	Intelligent vessel control system Development and research of underwater vehicle motion control system Methods and technique for unmanned vessel control and guidance
 <p>Research supervisor: Andrei G. Shpectorov, Candidate of Science: Saint Petersburg Electrotechnical University "LETI", 2003</p>	System Analysis, Management and Information Processing
	Supervisor's research interests: Vehicles Mathematic Simulation, Methods of Management and Information Processing, Nonlinear systems and Chaotic Dynamic
	Research highlights: <i>The research results will be tested in the modern laboratory equipped with bench equipment used for the development and debugging of advanced ship control systems</i>
	Supervisor's specific requirements: <ul style="list-style-type: none"> • Control theory; • Control system design methods; • MATLAB/Octave/Scilab Programming
	Supervisor's main publications Total amount of papers indexed by Web of Science within the last 5 years is 7. The main papers are: <ul style="list-style-type: none"> • <i>Andrei G. Shpectorov Fuzzy Control of the Immersion Depth of a Remote Controlled Vehicle/ Andrei G. Shpectorov, Pham Van Tuan // Marine Intelligent Technologies. – 2019. – № 3-1(45). – P. 161-165.</i> • <i>Alexey S. Korenev. A Route Calculation for Unmanned Vessel/ Alexey S. Korenev, Sergei P. Khabarov, Andrei G. Shpectorov // Marine Intelligent Technologies. – 2021. – № 4-1(54). – P. 158-165. – DOI 10.37220/MIT.2021.54.4.047.</i> • <i>Elena B. Ambrosovskaya. Using Chaotic Attractors to Simulate the Wave Effect on the Ship / Elena B. Ambrosovskaya, Andrei G. Shpectorov // Giroskopiya i Navigatsiya, 2022, vol. 30, no. 2 (117), pp. 81–94. DOI 10.17285/0869-7035.0093.</i>
	Results of intellectual activity Patent RU 116962, 2019. GUI Page KIT For Autopilot Control Panel Patent RU 2741669, 2021. System for Coordinated Control of Ship Movement in Modes of Automatic and Remote Control

