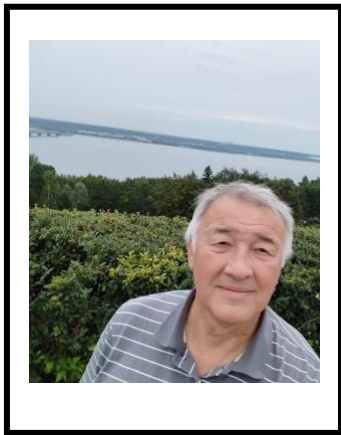


University	Saint Petersburg Polytechnic University
Level of English proficiency	Upper Intermediate
Courses and fields of studies offered for applicants	31.06.01 <i>Clinical medicine (educational program)</i> 3.1.13 <i>Urology and andrology (field of the educational program)</i>
Projects for potential academic supervision	5.2.2. Mathematical, statistical and instrumental methods in economics
Topics offered for prospective researches	<p>1) RSF grant #23-28-01213 "Theory and methodology of short-term economic forecasting using complex-valued vector autoregressions" (2023-2024);</p> <p>2) RFBR grant #19-010-00610\19 "Theory, methods and techniques for forecasting economic development using autoregressive models of complex variables" (2019-2021);</p> <p>3) RHF grant #16-02-00172 "Development of the theory of multi-level competition, its methods and techniques" (2016-2018);</p> <p>4) RFBR grant #13-06-00316 "Complex-valued analysis of the efficiency of development of the mineral resource complex of Russia" (2013-2015);</p> <p>5) International grant of the Russian Humanitarian Science Foundation and the National Academy of Sciences of Ukraine No. 10-02-00716 a/U "Models for assessing the unevenness and cyclicity of the dynamics of socio-economic development of the regions of Ukraine and Russia" (2010 – 2012);</p> <p>6) grant of the Russian Humanitarian Science Foundation No. 08-02-00212a "Innovation, entrepreneurship and competition: a systemic study of the relationship" (2008-2010);</p> <p>7) grant of the Russian Foundation for Basic Research No. 07-06-00151 "Development of the foundations of economic and mathematical modeling using complex variables" (2007-2009).</p>
 <p>Research supervisor: Sergey Svetunkov,</p> <p>Doctor of Economics (St. Petersburg University of Economics and Finance)</p>	<i>Mathematical, statistical and instrumental methods in economics</i>
	<p>Supervisor's research interests</p> <p>Models and methods of behavioral economics; mathematical modeling of market equilibrium; modeling and forecasting of economic conditions; modeling of multilevel competition; adaptive methods of economic forecasting; complex-valued economics: production functions of complex variables, complex-valued statistics, modeling of complex nonlinear economic processes using methods of the theory of functions of complex variables, complex-valued autoregressions, vector autoregressions, neural and polynomial networks</p>
	<p>Study program highlights</p> <p><i>Widespread use in economics of sections of the theory of functions of a complex variable</i></p>
	<p>Supervisor's specific requirements:</p> <p><i>Excellent knowledge of mathematical statistics, economics and programming in R or Python</i></p>
	<p>Supervisor's publications</p> <p><i>5 scientific articles in Web of Science and Scopus journals over the past 5 years.</i></p> <p><i>Most significant scientific works:</i></p> <p><i>1. Svetunkov S.G., Svetunkov I.S. Complex-Valued Econometrics with Examples in R. Modelling, Regression and Applications.</i></p>

	<p>Springer Cham, 2024, 154 p. https://doi.org/10.1007/978-3-031-62608-1.</p> <p>2. Svetunkov Sergey. <i>Complex-Valued Modeling in Economics and Finance</i>. Springer Science+Business Media, New York, 2012. 318 p. https://doi.org/10.1007/978-1-4614-5876-0</p> <p>3. Svetunkov S. Elementary image of the Kolmogorov-Gabor polynomial in economic modeling. <i>Technoeconomics</i>. 2024. 3. 2 (9). 4–21. DOI: https://doi.org/10.57809/2024.3.2.9.1</p> <p>4. <i>Technoeconomics</i>. 2024. 3. 2 (9). 4–21. DOI: https://doi.org/10.57809/2024.3.2.9.1</p>
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