

Name of the advisor: Jerzy Pyrchla

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Discipline¹: civil engineering and transport / environmental engineering, mining and energetics

Bibliometric indicators

1.	Number of journal publications in WoS/ Scopus	9/8
2.	Citations (WoS/Scopus) excluding self-citations	52/48
3.	Hirsch index (WoS/Scopus)	4/3
4.	Hirsch index in Google Scholar	7
5.	Citations in Google Scholar	169

1. The number of PhD students who have graduated under your supervision: 0

2. The number of PhD students currently supervised: 2

3. Are you currently accepting new PhD students:

a. Polish Yes

b. Foreign No

Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ My research interests are focusing on the technology of acquisition and exploration of gravimetric data in offshore and shore zones of sea waters. Within the framework of my projects, the measurements from LIDAR, multibeam echosounder and precise navigation become integrated. It is planned to provide supporting informatics tools and software for the robust exploration of gravimetric data. This data could be used not only for determining the Earth surface, but also for the analyzing of the geodynamical phenomena for inshore and offshore areas. The complex validation of developed technologies will be performed on the project's final step.

Proposed doctorates topics:

- 1) The complex analysis of methods for removing noise caused by platform movement in mobile gravimetry.
- 2) Precision tracking of platform accelerations, velocities and displacements using onboard sensor network.
- 3) Gravimetric observables map, analysis of the contained information density.

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Funding or special equipment needed to carry out a PhD project ⁱⁱⁱ:

1. Is funding available for experimental work: Yes
2. Is the equipment needed to complete a PhD project available in your lab/department: Yes

Most recent publications in WoS/SCOPUS journal – no more than 5 published after 1.01.2017

No	Authors/title/journal	Journal IF/Quartile – for WoS and SNIP/ CiteScore for SCOPUS	Publication year
1.	Pyrchla K., Pyrchla J., The Use of Gravimetric Measurements to Determine the Orthometric Height of the Benchmark in the Port of Gdynia, 2018 Baltic Geodetic Congress	-/Q4/0,18	2018
2.	Budzyński M., Kustra W., Okraszewska R., Jamroz K., Pyrchla J., The use of GIS tools for road infrastructure safety management, E3S Web of Conferences 26, 00009	-/Q4/0,18	2018
3.	Pyrchla K., Pyrchla J., Kantak T., Hydrographic Multisensory Unmanned Watercraft, 2018 Baltic Geodetic Congress (BGC Geomatics), 231-235	-/Q4/0,18	2018
4.	Pyrchla K., Pyrchla J., Kasyk L., Kijewska M., Leyk-Wesołowska M., Study of the Flow Dynamics of Surface Water Masses in the Area of the Coastal Gulf of Gdansk, 2017 Baltic Geodetic Congress (BGC Geomatics)	-/Q4/0,18	2017
5.	Inglot A., Pyrchla K., Pyrchla J., Fuzzy Sets in the GIS Environment in the Location of Objects on the Surface of Water Bodies. 2017 Baltic Geodetic Congress (BGC Geomatics)	-/Q4/0,18	2017

Most recent externally funded projects you were involved in – no more than 3

No	Project title, the name of the Principal Investigator (PI) and the institution the project was carried out	Year awarded	Role in the project
1.	Development of technology for acquisition and exploration of gravimetric data of foreshore and seashore of Polish maritime areas. Gdańsk University of Technology	2018	Substantive manager

PhD Advisor form

2.	Developing of autonomous/remote operated surface platform dedicated hydrographic measurements on restricted reservoirs, Marine Technology Sp. z o.o.,	2017	Scientific manager
3.			
<p>Additional relevant information – (no more than 1600 characters)^{iv} (Please fill in here)</p>			

ⁱ You may select up to two disciplines out of 12 disciplines represented in the Doctoral School ⁱⁱ Observe the limit of not more than 300 words ⁱⁱⁱ Leave only one answer

^{iv} Add any other relevant information eg. awards for PHD students whom you supervised (no more than 200 words)