

# Prospective supervisor's form

Name of the supervisor: Zbigniew Łubniewski

Academic title: Ph.D., D.Sc., Eng. (dr hab. inż.)

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Gdańsk University of Technology Faculty of Electronics, Telecommunications and Informatics

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Discipline: technical informatics and telecommunicator none

Optional

Key words (obligatory four key words describing research interests / expertise):

# Geographic Information Systems

# underwater acoustics

# satellite Earth observation

# global navigation satellite systems

## Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 20 / 22

2. Citations excluding self-citations WoS 107 Scopus 119

3. Hirsch index WoS 8 Scopus 9

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

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous system) 0

3. Are you currently accepting new PhD students:

a. Polish Yes/No Yes

b. Foreign Yes/No Yes

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### Research interests or topics offered for PhD research (no more than 2000 characters)<sup>ii</sup>

The fields of my research interest include: Geographic Information Systems (GIS) and their applications, geographic spatial data processing and management in the context of several applications, image processing in remote sensing and satellite Earth observation, underwater acoustics - in specific: seafloor sensing, characterization, classification and mapping, global navigation satellite systems (GNSS) data processing for accuracy improvement, general signal and data processing, computer systems and databases.

### Funding or special equipment needed to carry out a PhD project<sup>iii</sup>:

1. Is funding available for experimental work: *Yes/No/not needed*

Yes

2. Is the equipment needed to complete a PhD project

available in your lab/department: *Yes/No/not needed*

Yes

### Most important publications – no more than 5 published after 1.01.2018

No	Authors/title/journal	Number of points according to the current list of the Ministry of Science and Higher Education	Publication year
1.	Marcin Kulawiak, Marek Kulawiak, Zbigniew Łubniewski / Integration, Processing and Dissemination of LiDAR Data in a 3D Web-GIS / ISPRS International Journal of Geo-Information	70	2019
2.	Marek Kulawiak, Zbigniew Łubniewski / 3D Object Shape Reconstruction from Underwater Multibeam Data and Over Ground Lidar Scanning / Polish Maritime Research	70	2018

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3.			
4.			
5.			

**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	Years	Role in the project <sup>iv</sup>
1.	Fleet++: Multi-criteria vehicle route planning algorithms for the system supporting vehicle fleet management; Marek Moszyński; Gdańsk University of Technology	2014-2016	R
2.	Safe City GIS – Development, testing, demonstration and dissemination of innovative Web-based Geographical Information System for threat monitoring, prediction, and risk analysis for the municipal area; Marek Moszyński; Gdańsk University of Technology	2012-2014	Co-I
3.	Voice Maps – GIS for supporting self-dependent movement of the blind in municipal area; Andrzej Stepnowski; Gdańsk University of Technology	2010-2013	R

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Additional relevant information – (no more than 1600 characters)<sup>v</sup>



<sup>i</sup> You may select up to two disciplines out of 12 disciplines represented in the Doctoral School

<sup>ii</sup> Observe the limit of not more than 2000 characters

<sup>iii</sup> Leave only one answer

<sup>iv</sup> Select the role in the project: PI stands for principal investigator (refers to the holder of an independent grant and the lead researcher for the grant project), Co-I for co-investigator (Co-I assists the principal investigator in the management and leadership of the research project), R for researcher

<sup>v</sup> Add any other relevant information e.g. awards for PhD students whom you supervised (no more than 1600 characters)