

Prospective supervisor's form

Name of the supervisor: Jacek Stefański

Academic title: prof. dr hab. inż. (Prof., Ph.D., D.Sc., E

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Gdańsk University of Technology Faculty of Radio Communication Systems and Networks

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Discipline: technical informatics and telecommunicator none

Optional

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

radio communication

radio localization

radio navigation

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Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 37 / 46

2. Citations excluding self-citations WoS 105 Scopus 168

3. Hirsch index WoS 6 Scopus 8

1. The number of PhD students who have graduated under your supervision: 5

2. The number of PhD students currently supervised:

a. within the current doctoral school 0

b. within doctoral studies (previous s 3

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)ⁱⁱ

Analysis, simulation, design and measurement of cellular, wireless and trunked radio systems. Techniques of digital modulation, channel coding, signal spreading, radio signal reception. Measurement of radio wave propagation, field strength prediction. Software defined radio, location services and radio navigation, ad-hoc sensor networks and radio monitoring systems.

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

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.	Stefanski J., Sadowski J. / Sensor Position Estimation Method for IoT Using Mobile Reference Node / IEEE Access	100	2020
2.	Rajchowski P., Stefanski J., Sadowski J., Cwalina K. / Person Tracking in Ultra-Wide Band Hybrid Localization System Using Reduced Number of Reference Nodes / Sensors	100	2020

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3.	Sadowski J., Stefanski J. / Asynchronous WAM with Irregular Pulse Repetition / Journal of Navigation	70	2019
4.	Stefański J. / Asynchroniczne metody radiolokalizacyjne (Asynchronous Radiolocation Methods) / Wydawnictwo Naukowe PWN	80	2018
5.	Stefanski J., Sadowski J. / TDOA versus ATDOA for Wide Area Multilateration System / EURASIP Journal on Wireless Communications and Networking	70	2018

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 ^{iv}
1.	A Software-Defined, Universal Radio interface for Intelligent Devices of Internet of Things / DGT Sp. z o. o. & Gdansk University of Technology	2020	R
2.	Power Data Concentrator with Innovative Decision Functionality and Gate Functionality in AMI, SCADA, HAN, IoT Environments / DGT Sp. z o. o. & Gdansk University of Technology	2020	R
3.	Innovative Method of Locating the Aircraft in the Distributed VCS System / The National Centre for Research and Development / DGT-LAB S.A. & Gdansk University of Technology	2017	Co-I

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Additional relevant information – (no more than 1600 characters)^v

No additional information.

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 2000 characters

ⁱⁱⁱ Leave only one answer

^{iv} 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

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