

Prospective supervisor's form

Name of the supervisor: Jarosław Sadowski

Academic title: Ph. D., D. Sc., E. Eng., Assoc. Prof.

Orcid ID number: <https://orcid.org/0000-0002-0082-1701>

Faculty of Electronics, Telecommunications and Informatics

Gdańsk University of Technology Department of Radiocommunication Systems and Networks

Phone: +48 58 347 17 73

E-mail: jaroslaw.sadowski@eti.pg.edu.pl

Personal web page: https://pg.edu.pl/294e7ce74b_jaroslaw.sadowski

Discipline: technical informatics and telecommunicator none

Optional

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

radiocommunication

radiolocalization

radio wave propagation

software defined radio

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 35/44

2. Citations excluding self-citations WoS 53 Scopus 72

3. Hirsch index WoS 3 Scopus 5

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

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

Prospective supervisor's form

Research interests or topics offered for PhD research (no more than 2000 characters)ⁱⁱ

Research interests and topics of conducted research are mainly connected with radiolocalization and radionavigation, including indoor positioning, localization in cellular systems, dedicated positioning systems, positioning using signals of opportunity. But research interests cover also almost all aspects of radiocommunication, such as: radio wave propagation, channel modeling, modulation, source coding, channel coding, radio signal reception multiple access methods, resource allocation, communication protocols and digital signal processing, especially in software defined radio.

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

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

No

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.	Rajchowski P. , Stefański J. , Sadowski J. , Cwalina K.: "Person Tracking in Ultra-Wide Band Hybrid Localization System Using Reduced Number of Reference Nodes", SENSORS	100	2020
2.	Cwalina K. , Rajchowski P. , Błaszkiwicz O. , Olejniczak A. , Sadowski J.: "Deep Learning-Based LOS and NLOS Identification in Wireless Body Area Networks", SENSORS	100	2019

Prospective supervisor's form

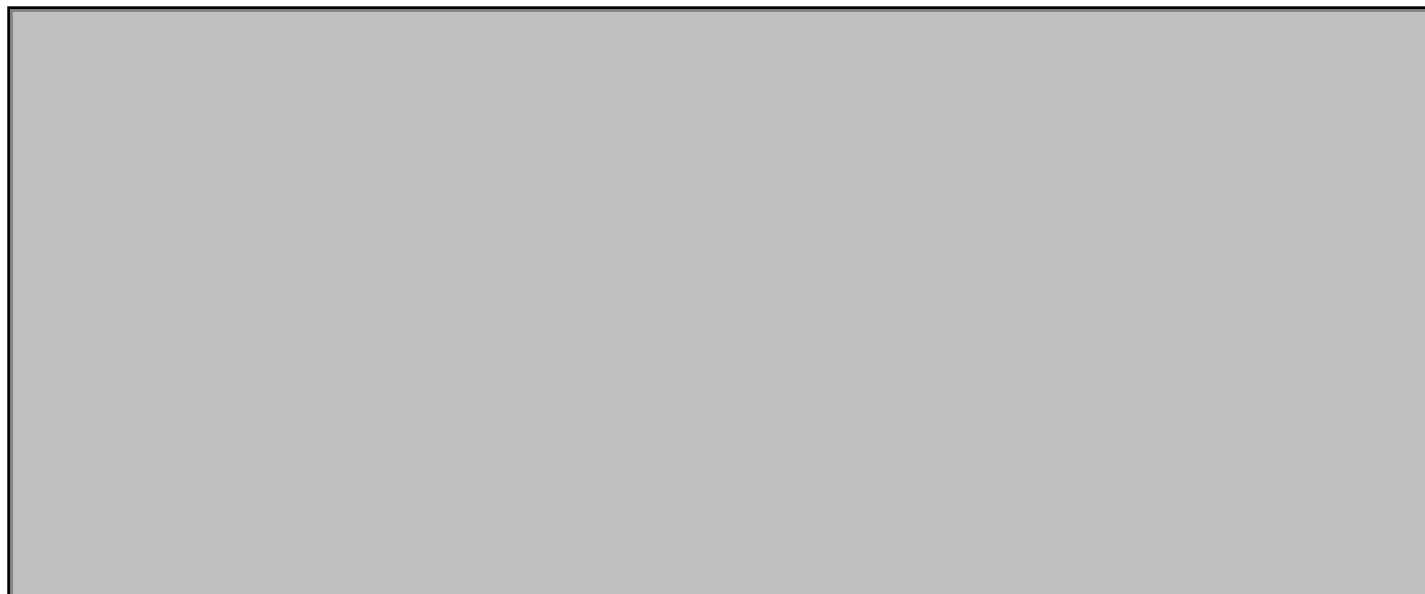
3.	Sadowski J. , Stefański J.: "Asynchronous WAM with Irregular Pulse Repetition", Journal of Navigation	70	2019
4.	Ferreira M. , Ambroziak S. , Cardoso F. , Sadowski J. , Correia L.: " Fading Modeling in Maritime Container Terminal Environments", IEEE Transactions on Vehicular Technology	140	2018
5.			

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 ⁱ
1.	"Innovative method of locating the aircraft in the distributed VCS system", PI: prof. J.Stefanski, consortium: Gdansk University of Technology and DGT sp. z o.o.	2017-2020	R
2.	"Power data concentrator with innovative decision functionality and gate functionality in AMI, SCADA, HAN, IoT environments", PI: dr M. Gajewska, consortium: Gdansk University of Technology and DGT sp. z o.o.	2020-2022	R
3.	"A software-defined, universal radio interface for intelligent devices of Internet of Things", PI: dr K. Cwalina, consortium: Gdansk University of Technology and DGT sp. z o.o.	2020-2023	R

Prospective supervisor's form

Additional relevant informatio (no more than 1600 characters)^v



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)