

Prospective supervisor's form

Name of the supervisor: Agnieszka Landowska

Academic title: DSc Msc Eng

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Faculty of Electronics, Telecommunications and Informatics

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Discipline: technical informatics and telecommunication none

Optional

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

affective computing

automatic emotion recognition

user experience

accessibility of systems

Bibliometric indicators

1. Number of journal publications in WoS/ Scopus 10

2. Citations excluding self-citations WoS 114 Scopus 130

3. Hirsch index WoS 8 Scopus 7

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) 1

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

Current topics of possible research studies comprise (topics are overlapping):

- A. automatic emotion recognition based on diverse signals (physiology, facial expressions, voice),
- B. human-computer interaction, human-robot interaction, user experience studies,
- C. accessibility of technology (systems, equipment) to users with diverse deficits, including especially autism spectrum disorder.

Regarding topic A, it involves data representation, time series processing, social signal processing as well as machine learning techniques applications.

Regarding topic B, we work in extended user experience model, that comprises cognitive, behavioural and affective clues to capture human experience. Therefore results in topic A are frequently applied in topic B.

Regarding topic C, for a long time there is a project that designs and implements mobile applications for behavioural therapy for children with autism. Moreover, other disabilities and deficits are of interest, too.

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

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

2. Is the equipment needed to complete a PhD project available in your lab/department: *Yes/No/not needed*

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.	Landowska A. , Robins B.: Robot Eye Perspective in Perceiving Facial Expressions in Interaction with Children with Autism Proceedings of Workshops of the International Conference on Advanced Information Networking, Springer, pp. 1287–1297, 2020	70	2020
2.	Landowska A. , Brodny G.: Scoreboard Architectural Pattern and Integration of Emotion Recognition Results, IEEE Access, 7, 7228-7249	100	2019

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3.	Landowska A.: Towards New Mappings between Emotion Representation Models, Applied Sciences, 8 (2), p. 274	70	2018
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 ^{iv}
1.	EMBOA Affective loop in Socially Assistive Robotics (SAR) as an intervention tool for children with autism, UE Erasmus +, Strategic Partnership for Higher Education, Gdansk University of Technology (leader), The University of Hertfordshire, Istanbul Teknik Universitesi, Yeditepe University, Macedonian Association for Applied Psychology, Universitat	2019-2022	PI
2.	AFFITS Methods and tools for affect-aware Intelligent Tutoring Systems, Polish-Norwegian Financing Mechanism, Small Grants Scheme, Gdansk University of Technology, PI: Agnieszka Landowska	2015-2017	PI
3.	AUTMON Automated therapy monitoring for children with autism development disorder, National Center for Re Research and Development (NCBR), Social Innovation programme, Hipoterapia Foundation+Harimata Company+ Gdansk University of Technology, PI: Agnieszka Landowska	2015-2017	PI

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

As a PhD student under my supervision you are joining a research group, called EMORG (see <http://emorg.eu/> for information). We cooperate with companies and apply for the projects. Current project is UE-funded EMBOA performed in international consortium and dealing with the combination of social robots and emotion recognition technologies applied in autism intervention (see <http://emboa.eu/> for information). I am also a part of UE-funded COST project SHELD-ON Indoor living space improvement: Smart Habitat for the Elderly, where research is performed in the field of accessibility and technology adoption models. (see <http://www.sheld-on.eu/> for 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)