GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	, PG_00069780		
Field of study	Informatyka afektywna		
Date of commencement of studies	February 2025	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Software Engineering -> Faculty of Electronics Telecommunications and Informatics -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Teresa Zawadzka	
	Teachers	dr inż. Teresa Zawadzka dr inż. Michał Wróbel dr hab. inż. Agnieszka Landowska	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	0.0	0.0	0.0	15

E-learning hours included: 0.0

eNauczanie source address: https://enauczanie.pg.edu.pl/2025/course/view.php?id=1239

Moodle ID: 1239 Informatyka afektywna 2025/26
https://enauczanie.pg.edu.pl/2025/course/view.php?id=1239

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	15	0.0	0.0	15

Subject objectives

The aim of the course is to introduce students to the field of affective computing and the possibilities of using modern artificial intelligence methods for emotion recognition.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W03] knows and understands, to an increased extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum	The student knows and understands models of emotion representation and methods of automatic emotion recognition using various observation channels.	[SW1] Ocena wiedzy faktograficznej
[K7_W08] knows and understands, to an increased extent, the fundamental dilemmas of modern civilisation, the main development trends of scientific disciplines relevant to the field of education	The student is familiar with the applications of automatic emotion recognition, development trends, and ethical aspects related to the use of automatic emotion recognition in various applications.	[SW1] Ocena wiedzy faktograficznej

<table>
<tr><td>Subject contents</td><td>(1) The discipline of affective computing

(2) Models of emotion representation for computer applications

(3) Methods of emotion observation by computer systems

(4) Emotion recognition

• Unimodal emotion recognition methods
• Multimodal emotion recognition methods and model evaluation

(5) Affect-tagged datasets

(6) Applications of affective computing</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Final test</td><td>50.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>1. Picard Rosalind "Affective Computing", MIT University Press, 1997

2. Lei, Lei and Dilin Liu, Conducting Sentiment Analysis, Cambridge University Press, 2021

3. Cambria E., Hussain A.: Sentic Computing. Techniques, Tools, and Applications, 2nd ed., 2012, Springer,</td></tr><tr><td>Supplementary literature</td><td>1. A. Landowska G. Brodny M. Wróbel, Limitations of Emotion Recognition from Facial Expressions in e-Learning Context 2017, https://doi.org/10.5220/0006357903830389

2. A. Landowska, Uncertainty in emotion recognition, https://doi.org/10.1108/jices-03-2019-0034</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>1. Ekman's model of emotions

2. Multidimensional model of emotions

3. Recognising emotions from facial expressions

4. Physiological signals used in emotion recognition

5. Problems with tagging emotional states</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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