13.03.25

Qualifications of the individual for defining area of expertise

Name/ Birth year	**Piotr Augustyniak** / 1965
Title (year degree obtained) / Prof. status	Ph. D. EE. (1995) / recognized researcher (R2) DSc. (2004) / associate professor – established researcher (R3) Professor (2013) – leading researcher (R4)
Address[1]	AGH University of Krakow, 30, Mickiewicza Ave. 30-059 Krakow, Poland phone: (+4812) 6174712 secretary: (+4812) 6174886, mobile: +48 697032858 august@agh.edu.pl, http://home.agh.edu.pl/august
Area of expertise[2]	biomedical signal processing, electrocardiography, processing, interpretation, non-uniform sampling visual pursuit and human perception, medical electronic equipment.
Relevant (best) publications[3]	1. Augustyniak P. *Diagnostic Interpretation of Non-Uniformly Sampled Electrocardiogram*. Sensors 2021, 21, paper 2969, **IF: 3,756** 2. Shahbakhti M, ..., Augustyniak P, et al. Simultaneous Eye Blink Characterization and Elimination From Low-Channel Prefrontal EEG Signals Enhances Driver Drowsiness Detection IEEE Journal of Biomedical and Health Informatics, Vol. 26, No. 3, March 2022, pp. 1001-1012, **IF: 5,772** 3. Mohammadi Far S., ... Augustyniak, P. Prediction of Preterm Labor from the Electrohysterogram Signals Based on Different Gestational Weeks. Sensors 2023, 23, paper 5965, **IF: 3,9** 4. Celniak W., ... Augustyniak P. Intelligent Eye-Tracker-Based Methods for Detection of Deception: A Survey, Electronics 2023, 12, paper 4627, **IF: 2,9** 5. Reklewski W., ... Augustyniak P. Multiplierless QRS detection algorithm for mobile ECG monitoring based on approximate computing, Measurement 249 (2025) 116969, **IF: 5,2**
Publications statistics:	**Google Scholar:** Publications: 301, Citations: 1672, H-index: 20 **Scopus:** Publications: 155, Citations: 862, H-index: 15 **Web of Science**: Publications: 131, Citations: 617, H-index: 13
Other[4]	*didactic responsibilities* 1995 - to date, Lecturer at AGH-UST, "Signal processing in medical technology" 1998 - to date, Lecturer at AGH-UST, "Advanced mathematics in biosignal processing", "Electronic medical equipment" etc. 1995 - to date, AGH-UST, supervision of 10 PhD, 62 Master's, 33 BSc students, 2001 - 2003 participant of the International Visegrad Fund project on BME education 2005 – 2012 head of the Multidisciplinary School of Engineering in Biomedicine 2018 - head of the Department of Biocybernetics and Biomedical Engineering *major grants (as Principal Investigator)* (1) Title: Optimization of the software of cardiac telemonitoring recorder Period: 2004-2007 Centre: AGH University of Science and Technology (3T11E 00127) Funds: State Committee for Scientific Research: EUR 115.000 Number of persons: 12

[1] Organisation, street address, telephone, email, web page
[2] With keywords characterising your field(-s) of expertise
[3] Max. 10
[4] List didactic, major grants, conference responsibilities, professional recognitions, memberships, journals, patents, etc.

(2) Title: Investigation of multimodal sensing of selected physiological parameters in human with assessment of their utility in the premise infrastructure of disabled
Period: 2008-2012
Centre: AGH University of Science and Technology (N N518 426736)
Funds: State Committee for Scientific Research: EUR 212.000
Number of persons: 15

(3) Title: Relationships between thermoregulation, fluid balance and exercise capacity in chronic heart failure
Period: 2020-2025
Centre: John Paul II Hospital in Krakow
Funds: State Committee for Scientific Research: EUR 147.000
Number of persons (at AGH-UST): 3

invited lectures

- International Conference on Information Technology in Biomedicine 2008
- Conference on Medical Informatics and Technologies 2011
- Conference on Measurement and Modelling in Medicine 2011
- International Conference on Innovative Technologies in Biomedicine 2013
- Polish Conference on Biocybernetics and Biomedical Engineering 2019

memberships

- Polish Society of Medical Physics - since 1995
- Polish Association Biomedical Engineering - since 2003
- IEEE Engineering in Biology and Medicine Society (M'2004, SM'2009)
- IEEE Signal Processing Society (elected Chair 2019 – 2023)
- International Society of Electrocardiology – since 2005
- elected member of the Committee for Technical Sciences, Polish Academy of Arts and Sciences (2011 – 2027)
- elected member of the Committee for Biocybernetics and Biomedical Engineering, Polish Academy of Science (2011 – 2027), deputy chair
- elected member of the Council of Scientific Excellence (2019 – 2027)
- member of Polish Committee for Standardization (since 2019) KT-302

reviewer of papers submitted to

- IEEE Transactions of Biomedical Engineering
- IEEE Transactions of Information Technology in Biomedicine
- Computer Methods and Programs in Biomedicine (Elsevier)
- Optoelectronic Review (Springer)
- Journal of Electrocardiology (Elsevier)
- Sensors (MDPI)
- Pattern Analysis and Applications (Springer)
- Medical Engineering & Physics (Elsevier)

reviewer of research project applications to:

* National Centre for Research and Development,
* National Science Centre,
* Polish Agency for Enterprise Development,