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Qualifications of the individual for defining area of expertise

Name	**Anna Broniec-Wójcik**
Title (year degree obtained) / Prof. status	B.S. and M.S. in Physics with specialization in Medical Physics Ph. D. (2013) in Biocybernetics and Biomedical Engineering/ assistant professor
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Area of expertise	Biomedical signal processing, electroencephalography, brain-computer interfaces.
Relevant (best) publications	1. A. Broniec, Analysis of EEG signal by flicker-noise spectroscopy: identification of right-/left-hand movement imagination, Medical & Biological Engineering & Computing, 2016 vol. 54 iss. 12, s. 1935–1947. https://goo.gl/wmS3eg, **IF=2.61**, 2. A. Broniec, The FNS-based analysis of precursors and cross-correlations in EEG signal related to an imaginary motor task, Biomedical Signal Processing and Control ; ISSN 1746-8094. — 2021 vol. 64 art. no. 102315, s. 1–9, **IF=3.88**, 3. Mohammad Shahbakhti, Matin Beiramvand, Mojtaba Nazari, Anna Broniec-Wójcik, Piotr Augustyniak, Ana Santos Rodrigues, Michał Wierzchoń, Vaidotas Marozas VME-DWT: an efficient algorithm for detection and elimination of eye blink from short segments of single EEG channel, IEEE Transactions on Neural Systems and Rehabilitation Engineering ; ISSN 1534-4320. — 2021 vol. 29, s. 408–417, **IF=3.802**, 4. Mohammad Shahbakhti, Ana Santos Rodrigues, Piotr Augustyniak, Anna Broniec-Wójcik, Andrius Sološenko, Matin Beiramvand, Vaidotas Marozas, SWT-kurtosis based algorithm for elimination of electrical shift and linear trend from EEG signals, Biomedical Signal Processing and Control; ISSN 1746-8094. — 2021 vol. 65 art. no. 102373, s. 1–8, **IF=3.88**, 5. Mohammad Shahbakhti, Matin Beiramvand, Izabela Rejer, Piotr Augustyniak, Anna Broniec-Wójcik, Michal Wierzchon, Vaidotas Marozas, Simultaneous eye blink characterization and elimination from low-channel prefrontal EEG signals enhances driver drowsiness detection, IEEE Journal of Biomedical and Health Informatics; ISSN 2168-2194. 2022 vol. 26 no. 3, s. 1001-1012, **IF=5.772**.
Publication statistics:	Web of Science: Publications: 4, Citations: 18, H-index: 2 Scopus: Publications: 8, Citations: 25, H-index: 3
Other	*didactic responsibilities* 2014 - to date, assistant professor AGH-UST, "Digital Signal Processing" 2014 - to date, assistant professor AGH-UST, "Laboratory of Medical Electronic Equipment" 2014 - to date, supervision of 3 Master's, 8 BSc students, with their thesis/diploma *major grants* 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, (as contractor)

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| | *reviewer of papers submitted to*
* Biomedical Signal Processing and Control
* Pattern Analysis and Applications
* International Journal of Pattern Recognition and Artificial Intelligence
* The Journal of Signal Processing Systems |