

Qualifications of the individual for defining area of expertise

<i>Name/ Birth year</i>	Jaromir Przybylo / 1975
<i>Title (year degree obtained) / Prof. status</i>	MSc. CS. (2000) research assistant Ph. D. CS. (2008) / associate professor
<i>Address¹</i>	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland phone: (+4812) 6173873 przybylo@agh.edu.pl, http://home.agh.edu.pl/przybylo/
<i>Area of expertise²</i>	biomedical signal and image processing, human-computer interaction, mixed-reality computer vision, machine and deep learning.
<i>Relevant (best) publications³</i>	<ol style="list-style-type: none"> 1. Przybyło, J. (2022). A deep learning approach for remote heart rate estimation. <i>Biomedical Signal Processing and Control</i>, 74, 103457. IF: 3.880 2. Przybyło, J. (2019). Continuous Distant Measurement of the User's Heart Rate in Human-Computer Interaction Applications. <i>Sensors</i>, 19(19), 4205. IF: 3.576 3. Przybyło, J., Kańtoch, E., & Augustyniak, P. (2019). Eyetracking-based assessment of affect-related decay of human performance in visual tasks. <i>Future Generation Computer Systems</i>, 92, 504-515. IF : 4.639 4. Przybyło, J., & Jabłoński, M. (2019). Using Deep Convolutional Neural Network for oak acorn viability recognition based on color images of their sections. <i>Computers and Electronics in Agriculture</i>, 156, 490-499. IF : 2.427 5. Przybyło, J., Kańtoch, E., & Augustyniak, P. (2018). A concept of bimodal visual emotion recognition in computer users. <i>AfCAI 2018 - proceedings of the 2nd workshop on Affective Computing and Context Awareness in Ambient Intelligence</i>, ed. by Grzegorz J. Nalepa, [et al.]. ISSN 1613-0073 ; vol. 2166. 6. Jabłoński, M., & Przybyło, J. (2017). Evaluation of MoG video segmentation on GPU-based HPC system. <i>Computing and Informatics</i>, 35(5), 1141-1159. IF 0.488 7. Przybylo, J., & Dobosz, P. (2017, September). Functional Endoscopic Sinus Surgery with Head Mounted Display and Video Analysis. In <i>Polish Conference on Biocybernetics and Biomedical Engineering</i> (pp. 182-191). Springer, Cham. 8. Przybyło, J., Kańtoch, E., Jabłoński, M., & Augustyniak, P. (2016). Distant Measurement of Plethysmographic Signal in Various Lighting Conditions Using Configurable Frame-Rate Camera. <i>Metrology and Measurement Systems</i>, 23(4), 579-592. IF: 1.598 9. Przybyło, J. (2012). Vision based facial action recognition system for people with disabilities. In <i>Information Technologies in Biomedicine</i> (pp. 577-588). Springer, Berlin, Heidelberg.
<i>Publications statistics:</i>	Google Scholar: Publications: 38, Citations: 194, H-index: 9 Web of Science: Publications: 14, Citations: 68, H-index: 5
<i>Other⁴</i>	<i>didactic responsibilities</i> 2000 - to date Lecturer at AGH-UST, " Human-computer Interfaces" Lecturer at AGH-UST, " Multimodal Interfaces"

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.

	<p>Lecturer at AGH-UST, "Sensors and machine intelligence" Lecturer at AGH-UST, "Telemedicine" Lecturer at AGH-UST, "Virtual Reality and Stereovision Systems"</p> <p>2000 - to date, AGH-UST, supervision of 24 Master's, 28 BSc students, with their thesis/diploma</p> <p><i>major grants (as Investigator)</i> Title: Functional model of automaton, comprising machine vision system, for scarification and assessment of acorn viability by means of automatic recognition of topography of mummification changes Period: 2015-2018 Centre: AGH University of Science and Technology (BS3/A8/134/2015) Funds: National Centre of Research and Development of the Republic of Poland (NCBiR): 2 370 600 PLN</p> <p>Title: Intelligent surveillance system for monitoring of important public spaces and buildings SIMPOZ Period: 2010-2013 Centre: AGH University of Science and Technology (0128/R/T00/2010/12) Funds: State Committee for Scientific Research: 2 086 980,00 PLN</p> <p>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</p> <p><i>reviewer of papers submitted to</i></p> <ul style="list-style-type: none"> • Sensors (ISSN 1424-8220) • Applied Optics Journal • Information Sciences • Image Processing & Communications Journal • others <p><i>cooperation with industry:</i></p> <ul style="list-style-type: none"> * 1999 – to date: ONT Oprogramowanie Naukowo-Techniczne (MathWorks distributor) <p><i>science popularization:</i></p> <ul style="list-style-type: none"> • Managing YouTube channel: https://www.youtube.com/c/StrefaInzynieriiBiomedycznej/ • Organization and participation in the presentation of the results of students' master's thesis "The use of augmented reality techniques to support human perception" in regional television (TVP3 Krakow) • Article in PAP Science in Poland : "Augmented Reality" • 22nd Science Picnic of Polish Radio and the Copernicus Science Centre 2018. Demonstration title: Remote heart rate detection using ordinary camera. • 2019r ITHACA Demonstration title: Remote heart rate detection using ordinary camera
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