28.05.25

Qualifications of the individual for defining area of expertise

Name/ Birth year	**Tomasz Nabagło** / 1976
Title (year degree obtained) / Prof. status	Ph. D. EE. (2007) / assistant professor
Address[1]	AGH University of Science and Technology, Al. Mickiewicza 30, 30-059 Krakow, Poland phone: +48 12 617 46 60, mobile: +48 507 020 875 email: nabaglo@agh.edu.pl
Area of expertise[2]	Modelling, CAD designing, 3D printing, mechatronics, biocybernetics, mechanical and data acquisition systems prototyping
Relevant (best) publications[3]	1. Nabagło T., Tabor Z., Augustyniak P. (2023) *Measurement Systems for Use in the Navigation of the Cannula–Guide Assembly within the Deep Regions of the Bronchial Tree*, Sensors 2023 (4), 2306 2. Rzecki K., Kucybała I. , Gut D., Jarosz A., Nabagło T., Tabor Z., Wojciechowski W. (2021) *Fully automated algorithm for the detection of bone marrow oedema lesions in patients with axial spondyloarthritis–feasibility study*, Biocybernetics and Biomedical Engineering 41 (2), 833-853 3. Nabagło T., Jurkiewicz A., Kowal J. (2021) *Modeling verification of an advanced torsional spring for tracked vehicle suspension in 2S1 vehicle model*, Engineering Structures 229, 111623 4. Michalski D., Nabagło T., Tabor Z. (2019) *Coupling of inertial measurement units with a virtual world model for supporting navigation in bronchoscopy*, Biocybernetics and Biomedical Engineering 39 (2), 273-281 5. Michalski D., Nabagło T., Tutaj J., Mysiński W. , Petryniak R., Pietrzyk D., Wojciechowski W., Tabor Z. (2018) *Mechatronics Supported Virtual Bronchoscopy for Navigation in Bronchoscopy of Peripheral Respiratory Tree*, VipIMAGE 2017: Proceedings of the VI ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing Porto, Portugal, October 18-20, 2017
Publications statistics:	**Scopus:** Citations: 73, H-index: 5 **Web of Science**: Publications: 11, Citations: 60, H-index: 5
Other[4]	*didactic responsibilities* 2008 – 2019, Lecturer at Cracow University of Technology 2019 – to date, Lecturer at AGH-UST 2023-to date, Lecturer at AGH-UST, " Intelligent sensorics systems" *major grants* (1) Title: Integrating reasoning, learning, optimization, and interpretation to accelerate commercialization of next-generation intelligent software systems"

---

[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.

	Responsibilities: contractor Period: 2023-2027 Centre: AGH University of Cracow Funded by National Science Centre, Poland, ARTIQ/0004/2021 (2) Title: A reconfigurable detector for measuring the spatial distribution of radiation dose for applications in the preparation of individual patient treatment plans Responsibility: contractor Period: 2019-2023 Centre: Cracow University of Technology Funds: Foundation for Polish Science, POIR.04.04.00-00-15E5/18 (3) Title: Phantom for exploitation tests of radiotherapeutic devices in teleradiotherapy Responsibility: coordinator in a stage and contractor Period: 2017-2020 Centre: Cracow University of Technology Funds: National Centre for Research and Development, POIR.04.01.04-00-0014/16 (4) Title: Research on spatial navigation methods in endoscopic diagnostics of the peripheral lung nodule Responsibility: contractor Period: 2015-2018 Centre: Cracow University of Technology Funds: National Centre for Research and Development, PBS3/A9/31/2015 *memberships* IEEE Signal Processing Society, since 2023