

Qualifications of the individual for defining area of expertise

<i>Name/ Birth year</i>	Zbislaw Tabor / 1970
<i>Title (year degree obtained) / Prof. status</i>	Ph. D. Physics (1999) / research scientist DSc. Biocybernetics and Biomedical Engineering (2011) / associate professor Professor in technical sciences (2018)
<i>Address¹</i>	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland ztabor@agh.edu.pl ORCID: 0000-0002-9688-9718
<i>Area of expertise²</i>	image analysis physics in medicine
<i>Relevant (best) publications³</i>	M. Baran, Z. Tabor , M. Tulik, D. Kabat, K. Rzecki, T. Sośnicki, M. Waligórski: Are Gamma Passing Rate and Dose-Volume Histogram QA Metrics Correlated? Med. Phys. 2021 48: 4743-4753. Z. Tabor , D. Kabat, A. Waligórski: DeepBeam – A Machine Learning Framework For Tuning The Primary Electron Beam of The PRIMO Monte Carlo Software. Radiation Oncology 2021, 16:124. K. Rzecki, I. Kucybała, D. Gut, A. Jarosz, T. Nabagło, Z. Tabor , W. Wojciechowski: Fully automated algorithm for the detection of bone marrow oedema lesions in patients with axial spondyloarthritis – feasibility study. Biocybernetics and Biomedical Engineering 2021: 41: 833-853. M. Baran, D. Kabat, M. Tulik, K. Rzecki, T. Sośnicki, Z. Tabor : Statistical approach to the selection of the tolerances for distance to agreement improves the quality control of the dose delivery in radiotherapy. Physics in Medicine and Biology 2020, 65: 145004. I. Kucybała, Z. Tabor , S. Ciuk, R. Chrzan, A. Urbanik, W. Wojciechowski: A fast graph-based algorithm for automated segmentation of subcutaneous and visceral adipose tissue in 3D abdominal computed tomography images. Biocybernetics and Biomedical Engineering 2020 in print. I. Kucybała, Z. Tabor , J. Polak, A. Urbanik, W. Wojciechowski: The semi-automated algorithm for the detection of bone marrow oedema lesions in patients with axial spondyloarthritis . Rheumatology International 2020, 40: 625-633. M. Baran, K. Rzecki, D. Kabat, M. Tulik, A. Wydra, Z. Derda, A. Sochaczewska, Z. Tabor : A simulation-based method for evaluating geometric tests of a linac c-arm in quality control in radiotherapy. Journal of Applied Clinical Medical Physics 2019, 20: 133-142. M. Tulik, D. Kabat, M. Baran, R. Kycia, Z. Tabor : Use of statistical approaches to improve the quality control of the dose delivery in radiotherapy. Physics in Medicine and Biology 2019, 64: 145018.
<i>Publications statistics:</i>	Google Scholar : Publications: 114, Citations: 1066, H-index: 17

¹ Organisation, street address, telephone, email, web page

² With keywords characterising your field(-s) of expertise

³ Max. 10

Other ⁴	<p><i>didactic responsibilities</i> Machine Learning Design and Analysis of Experiments Statistics</p> <p><i>major grants</i> <i>Title: X-rAI: Diagnostic browser for radiology with computer aided engineering using Artificial Intelligence</i> Responsibility: leader at AGH Period: 2021-2022 Centre: AGH University of Science and Technology Funds: National Centre for Research and Development, :POIR.01.01.01-00-1666/20</p> <p><i>Title: A reconfigurable detector for measuring the spatial distribution of radiation dose for applications in the preparation of individual patient treatment plans</i> Responsibility: managing committee member Period: 2019-2023 Centre: Cracow University of Technology Funds: Foundation for Polish Science, POIR.04.04.00-00-15E5/18</p> <p><i>Title: Phantom for exploitation tests of radiotherapeutic devices in teleradiotherapy</i> Responsibility: project leader Period: 2017-2020 Centre: Cracow University of Technology Funds: National Centre for Research and Development, POIR.04.01.04-00-0014/16</p> <p><i>Title: Research on spatial navigation methods in endoscopic diagnostics of the peripheral lung nodule</i> Responsibility: project leader Period: 2015-2018 Centre: Cracow University of Technology Funds: National Centre for Research and Development, PBS3/A9/31/2015</p>
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⁴ List didactic, major grants, conference responsibilities, professional recognitions, memberships, journals, patents, etc.