16.03.22

Qualifications of the individual for defining area of expertise

Name/ Birth year	**Mateusz Baran** / 1989
Title (year degree obtained) / Prof. status	Ph. D. CS (2018) / assistant professor
Address[1]	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland phone: +48 12 617 46 61 mbaran@agh.edu.pl ResearcherID: AAE-1126-2022 ORCID: 0000-0001-9667-5579
Area of expertise[2]	Machine learning Analysis of functional biometric data Quality assurance in radiotherapy Medical image analysis
Relevant (best) publications[3]	**1.** K. Rzecki and M. Baran, "Application of Elastic Shape Analysis to User Authentication and Identification," IEEE Transactions on Emerging Topics in Computing, pp. 1–1, 2021. **IF = 7.691** **2.** M. Baran et al., "Are gamma passing rate and dose-volume histogram QA metrics correlated?," Med Phys, vol. 48, no. 9, pp. 4743–4753, Sep. 2021. **IF = 4.071** **3.** M. Baran, D. Kabat, M. Tulik, K. Rzecki, T. Sośnicki, and Z. Tabor, "Statistical approach to the selection of the tolerances for distance to agreement improves the quality control of the dose delivery in radiotherapy," Phys. Med. Biol., vol. 65, no. 14, p. 145004, Jul. 2020. **IF = 3.030** **4.** M. Baran, "Closest paths in graph drawings under an elastic metric," International Journal of Applied Mathematics and Computer Science, vol. 28, no. 2, pp. 387–397, 2018. **IF = 1.504** **5.** K. Rzecki et al., "Application of Computational Intelligence Methods for the Automated Identification of Paper-Ink Samples Based on LIBS," Sensors (Basel), vol. 18, no. 11, Oct. 2018. **IF = 3.031** **6.** M. Tulik, D. Kabat, M. Baran, R. A. Kycia, and Z. Tabor, "Use of statistical approaches to improve the quality control of the dose delivery in radiotherapy," Phys. Med. Biol., vol. 64, no. 14, p. 145018, 2019. **IF = 3.030**
Publications statistics:	**Google Scholar:** Publications: 25, Citations: 138, H-index: 6 **Web of Science**: Publications: 15, Citations: 48, H-index: 3
Other[4]	*didactic responsibilities* 2013 – 2019, Lecturer at Cracow University of Technology 2019 – to date, Lecturer at AGH-UST *major grants* Title: BIMLOQ (MNiSW N516 422338) Period: 2012 Title: Prosecco (PBS1/B3/14/2012) Period: 2013

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.

	Title: Fantom do testów eksploatacyjnych urządzeń radioterapeutycznych w teleradioterapii (POIR.04.01.04-00-0014/16) Period: 2018-2019 Title: Reconfigurable detector for measuring the spatial distribution of radiation dose for applications in the preparation of individual patient treatment plans (POIR.04.04.00-00-15E5/18) Period: 2020-2023 *reviewer of papers submitted to* • Medical Physics • Physics in Medicine and Biology • Journal of Applied Clinical Medical Physics • PLOS ONE • Physica Scripta