30.03.25

Qualifications of the individual for defining area of expertise

Name/ Birth year	**Tomasz Sośnicki** / 1987
Title (year degree obtained) / Prof. status	MSc. In Computer Science (2011)
Address[1]	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland sosnicki@agh.edu.pl, https://sites.google.com/view/tomasz-sosnicki/ ORCID: 0000-0001-7059-7971
Area of expertise[2]	Machine learning, Data mining, Experiments modelling, Pipeline and parallel processing.
Relevant (best) publications[3]	1. P. Homola, V. Marchenko et al, "Observation of large scale precursor correlations between cosmic rays and earthquakes with a periodicity similar to the solar cycle", Journal of Atmospheric and Solar-Terrestrial Physics 2023, vol. 247 art. no. 106068. **IF=1.8** 2. R. Clay; J. Singh, et al., "A Search for Cosmic Ray Bursts at 0.1 PeV with a Small Air Shower Array". Symmetry 2022, 14, 501. **IF = 2.940** 3. J. S. Pryga, et al., "Analysis of the Capability of Detection of Extensive Air Showers by Simple Scintillator Detectors". Universe 2022, 8, 425. **IF = 2.813** 4. O. Bar,, et al., "Zernike Moment Based Classification of Cosmic Ray Candidate Hits from CMOS Sensors", Sensors, vol. 21, no. 22,2021. **IF = 3.576** 5. Baran, M, Tabor, Z, Tulik, M, et al. Are gamma passing rate and dose–volume histogram QA metrics correlated? Med Phys. 2021; 48: 4743– 4753. **IF: 4.071** 6. Baran M, Kabat D, Tulik M, Rzecki K, Sośnicki T, Tabor Z. 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. 2020 Jul 13;65(14):145004, **IF: 3.609** 7. K.Rzecki, P.Pławiak, M.Niedźwiecki, T.Sośnicki, M.Król, T.Łojewski, "Application of computational intelligence methods for the automated identification of paper-ink samples based on LIBS", 10/2018, MDPI; MDPI Sensors. **IF: 2.475** 8. Krzysztof Rzecki, Paweł Pławiak, Michał Niedźwiecki, Tomasz Sośnicki, Jacek Leśkow, Maciej Ciesielski, "Person recognition based on touch screen gestures using computational intelligence methods", Information Sciences, Volumes 415–416, November 2017, Pages 70-84, ISSN 0020-0255, **IF: 4.305** 9. P. Plawiak; T. Sosnicki; M. Niedzwiecki; Z. Tabor; K. Rzecki, "Hand Body Language Gesture Recognition Based on Signals From Specialized Glove and Machine Learning Algorithms," in IEEE Transactions on Industrial Informatics, vol.PP, no.99, pp.1-1, **IF: 6.674**
Publications statistics:	**Google Scholar:** Publications: 24, Citations: 306, H-index: 8 **Web of Science**: Publications: 14, Citations: 205, H-index: 6
Other[4]	*didactic responsibilities* 2023 - 2025, assistant at AGH UST, "Web Applications"

[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.

	2022 - 2025, assistant at AGH UST, "Algorithms and Data Structures" 2022 - 2025, assistant at AGH UST, "Computer Programming" 2019 - 2021, assistant at AGH UST, "Object Oriented Programming" 2019 - 2021, assistant at AGH UST, "Operating Systems" 2019 - 2020, assistant at AGH UST, "Multimodal Interfaces" 2011 - 2019, assistant at CUT, "Parallel and Distributed Programming" 2011 - 2013, assistant at CUT, "Computer Systems Security" 2012 - 2016, assistant at CUT, "IT security" 2012 - 2019, assistant at CUT, "System Administration" Technical consultant of 15 M.Sc., 14 B.Sc. students, with their thesis/diploma. *project participant* • 2021-2023 Big Data Analyst "Development of cost-optimized solutions in the field of production automation and quality control used in the production of laminate tubes", POIR.01.01.01-00-1296/20. • 2018-2019 System designer "A phantom for exploitation tests of medical radiotherapy devices", POIR.04.01.04-00-0014/16. • 2016-2017 System designer "Develop a system supporting bronchofiberoscope navigation within a peripheral bronchial tree", PBS3/A9/31/2015. • 2009-2014 System designer and developer of Cracow Cloud One project. „The use of elastic computing in distributed networks in research and economy" in POIG 02.03.03-00-033/09-04 for Institute of Nuclear Physics Polish Academy of Sciences. • 2013 "Context Data Management", developer in R&D project for Orange Labs Poland. • 2012-2013 "Developing innovative integrated platform for the financial area", R&D project developer for VSoft S.A. in UDA-POIG.01.04.00-12-106/12-00. • 2013 "Modeling cooperation of agents by multivalued logic and parallel processing", designer and developer for Institute of Fundamental Technological Research Polish Academy of Sciences in UMO-2012/05/B/ST6/03094 and UMO-2012/05/B/ST6/03094. • 2012 "Context Awareness Stack - The New Approach for Context Data Structure", developer in R&D project for Orange Labs Poland. • 2012 "Development of an innovative utility and maintenance platform", R&D developer for VSoft S.A. in UDA-POIG.01.04.00-12-075/11-00. • 2009 Participant of the CERN Summer Student Programme. *professional recognitions* • Since 2015 Co-founder and Shareholder/Director of Live-Docs Sp. z o.o., http://live-docs.com. • 2011 "FilesOnline - Document Management System", system designer and developer for Trusca Business Solutions Ltd, Potters Bar, United Kingdom. • 2015 Developer of Virtual Diagnostician for mobile platform for Emedico Sp. z o.o. • 2009-2010 System designer and developer to visualize a laboratory to store umbilical cord blood for Cledar Sp. z o.o.