

Qualifications of the individual for defining area of expertise

Name/ Birth year	Krzysztof Rzecki / 1978
Title (year degree obtained) / Prof. status	D. Sc. in Information and Communication Technology (2022) / associate professor Ph. D. in Computer Science (2009) / assistant professor M. Sc. in Marketing and Management (2004) M. Sc. Eng. in Computer Science (2002)
Address	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland krz@agh.edu.pl, http://rzecki.pl ResearcherID: AAV-3862-2020 ORCID: 0000-0002-6834-2344
Area of expertise	natural language processing cybersecurity & biometry machine & deep learning
Relevant (best) publications	<ol style="list-style-type: none"> 1. Seth D. Axen, Mateusz Baran, Ronny Bergmann, and Krzysztof Rzecki. 2023. Manifolds.jl: An Extensible Julia Framework for Data Analysis on Manifolds. ACM Trans. Math. Softw. 49, 4, Article 33 (December 2023). IF = 2.786 2. Baran M, et al., Application of Conditional Generative Adversarial Networks to Efficiently Generate Photon Phase Space in Medical Linear Accelerators of Different Primary Beam Parameters. Applied Sciences. 2023. IF = 2.7 3. P. Homola, 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, Volume 247, 2023. IF = 2.119 4. M. Baran, et al., "Isodoses—a set theory-based patient-specific QA measure to compare planned and delivered isodose distributions in photon radiotherapy", <i>Strahlentherapie und Onkologie</i>, vol. 198, no. 9, 2022. IF = 4.033 5. M. Baran, et al., "Are gamma passing rate and dose–volume histogram QA metrics correlated?", <i>Medical Physics</i>, vol. 48, no. 9, 2021. IF = 4.071 6. M. Piekarczyk, et al., "CNN-based classifier as an offline trigger for the CREDO experiment", <i>Sensors</i>, vol. 21, no. 14, 2021. IF = 3.735 7. O. Bar, et al., "Zernike Moment Based Classification of Cosmic Ray Candidate Hits from CMOS Sensors", <i>Sensors</i>, vol. 21, no. 22, 2021. IF = 3.735 8. K. Rzecki, et al., "Fully automated algorithm for the detection of bone marrow oedema lesions in patients with axial spondyloarthritis - Feasibility study", <i>Biocybernetics and Biomedical Engineering</i>, vol. 41, no. 2, 2021. IF = 2.537 9. K. Rzecki and M. Baran, "Application of Elastic Shape Analysis to User Authentication and Identification", <i>IEEE Transactions on Emerging Topics in Computing</i>, 2021. (early access). IF = 6.043 10. K. Rzecki, "Classification Algorithm for Person Identification and Gesture Recognition Based on Hand Gestures with Small Training Sets", <i>Sensors</i>, vol. 20, no. 24, 2020. IF = 3.275
Publications statistics:	Google Scholar: Publications: 88, Citations: 558, H-index: 13 Web of Science: Publications: 42, Citations: 342, H-index: 9
Other	<i>didactic responsibilities</i> 2002 – 2025 Lecturer at CUT and AGH UST: <ul style="list-style-type: none"> • Algorithms and data structures • Network services programming • Natural language processing • Security of computer systems nad networks • Service-oriented architectures

	<ul style="list-style-type: none"> • Operating systems <p>Supervision of over 90 M.Sc. and B.Sc. students with their thesis/diploma.</p> <p><i>professional recognitions</i></p> <ul style="list-style-type: none"> • 2021 - 2023 R&D Leader in a project “Development of cost-optimizing solutions in the field of production automation and quality control used in the production of laminate tubes”, POIR.01.01.01-00-1296/20. • 2021 - 2023 Member of management team in a project “Reconfigurable scintillator based full 3D detector for evaluating patient-specific dose distribution”, POIR.04.04.00-00-15E5/18. • 2018 - 2019 Participant of the project “A phantom for exploitation tests of medical radiotherapy devices”, POIR.04.01.04-00-0014/16. • 2009 - 2019 Assistant Professor (2002-2009 Assistant) of Computer Science in Institute of Telecomputing, Faculty of Mathematics Physics and Computer Science, Cracow University of Technology. • 2016-2017 Participant of the project “Develop a system supporting bronchofiberscope navigation within a peripheral bronchial tree”, PBS3/A9/31/2015. • Since 2015 Co-founder and Shareholder/Director of Live-Docs Sp. z o.o., http://live-docs.com. • 2013 Leader of the R&D project “Context Data Management” for Orange Labs Poland. • 2012-2013 Participant of the project “Developing innovative integrated platform for the financial area”, UDA-POIG.01.04.00-12-106/12-00. • 2012 Leader of the R&D project “Context Awareness Stack - The New Approach for Context Data Structure” for Orange Labs Poland. • 2012 Participant of the project “Development of an innovative utility and maintenance platform”, VSoft SA, UDA-POIG.01.04.00-12-075/11-00. • 2009-2011 Participant of the project „Asynchronous Agent System for Monitoring Communication and System States Based on the SOA Paradigm”, IPI PAN, POIG.01.03.01-00-008/08, 2009-2013. • 2011 Participant of the project “User interface based on natural gestures for exploration of virtual 3D spaces”, IITiS PAN, NN516405137. • 2004-2011 Leader of Software Department in CCNS SA in Cracow: • 2000-2004 One year long internship in Siemens AG/München/Germany. <p><i>open source projects</i></p> <ul style="list-style-type: none"> • 2006-2007 K.Rzecki et al., RFC 5222 contribution, „ECRIT – Emergency Context Resolution with Internet Technologies”, with Nokia-Siemens-Networks AG, http://ecrit.sourceforge.net/. • 2005-2006 K.Rzecki et al., RFC 5106 contribution, „EAP-IKEv2 Extensible Authentication Protocol with Internet Key Exchange Protocol version 2”, with Siemens AG, http://eap-ikev2.sourceforge.net/. <p><i>certificates</i></p> <ul style="list-style-type: none"> • TOP 500 Innovators Program, UC Berkeley, CA/USA, 2015. • ITIL Foundation, APMG-International, 2013. • PRINCE2 Foundation, APMG-International, 2011.
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