

**Qualifications of the individual for defining area of expertise**

<i>Name/ Birth year</i>	<b>Krzysztof Rzecki / 1978</b>
<i>Title (year degree obtained) / Prof. status</i>	Ph. D. in Computer Science (2009) / assistant professor M.Sc. in Marketing and Management (2004) M.Sc. Eng. in Computer Science (2002)
<i>Address</i>	AGH University of Science and Technology, 30, Mickiewicza Ave. 30-059 Krakow, Poland krz@agh.edu.pl, <a href="http://rzecki.pl">http://rzecki.pl</a> ResearcherID: AAV-3862-2020 ORCID: 0000-0002-6834-2344
<i>Area of expertise</i>	natural language processing cybersecurity & biometry machine & deep learning
<i>Relevant (best) publications</i>	<ol style="list-style-type: none"> <li>1. O. Bar., et al., "Zernike Moment Based Classification of Cosmic Ray Candidate Hits from CMOS Sensors", <i>Sensors</i>, vol. 21, no. 22, 2021. <b>IF = 3.576</b></li> <li>2. 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. <b>IF = 2.537</b></li> <li>3. 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). <b>IF = 6.043</b></li> <li>4. 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. <b>IF = 3.275</b></li> <li>5. M. Baran et al., "Statistical approach to the selection of the tolerances for distance to agreement improves the quality control of the dose delivery in radiotherapy", <i>Physics in Medicine &amp; Biology</i>, 2020. <b>IF = 3.030</b></li> <li>6. M. Baran et al., "A simulation-based method for evaluating geometric tests of a linac c-arm in quality control in radiotherapy," <i>Journal of Applied Clinical Medical Physics</i>, vol. 20, no. 9, pp. 133–142, 2019. <b>IF = 1.544</b></li> <li>7. K. Rzecki et al., "Application of Computational Intelligence Methods for the Automated Identification of Paper-Ink Samples Based on LIBS," <i>Sensors</i>, vol. 18, no. 11, Oct. 2018. <b>IF = 3.031</b></li> <li>8. K. Rzecki et al, "Person recognition based on touch screen gestures using computational intelligence methods", <i>Information Sciences</i>, vol. 415-416, 2017. <b>IF = 4.305</b></li> </ol>
<i>Publications statistics:</i>	<b>Google Scholar:</b> Publications: 52, Citations: 267, H-index: 8 <b>Web of Science:</b> Publications: 22, Citations: 158, H-index: 5
<i>Other</i>	<i>didactic responsibilities</i> 2002 – 2022 Lecturer at CUT and AGH UST <ul style="list-style-type: none"> <li>• Algorithms and data structures</li> <li>• Network services programming</li> <li>• Natural language processing</li> <li>• Security of computer systems nad networks</li> <li>• Service-oriented architectures</li> <li>• Operating systems</li> </ul> <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"> <li>• Since 2021 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.</li> <li>• 2018 - 2019 Participant of the project “A phantom for exploitation tests of medical radiotherapy devices”, POIR.04.01.04-00-0014/16.</li> <li>• 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.</li> <li>• 2016-2017 Participant of the project “Develop a system supporting bronchofiberscope navigation within a peripheral bronchial tree”, PBS3/A9/31/2015.</li> <li>• Since 2015 Co-founder and Shareholder/Director of Live-Docs Sp. z o.o., <a href="http://live-docs.com">http://live-docs.com</a>.</li> <li>• 2013 Leader of the R&amp;D project “Context Data Management” for Orange Labs Poland.</li> <li>• 2012-2013 Participant of the project “Developing innovative integrated platform for the financial area”, UDA-POIG.01.04.00-12-106/12-00.</li> <li>• 2012 Leader of the R&amp;D project “Context Awareness Stack - The New Approach for Context Data Structure” for Orange Labs Poland.</li> <li>• 2012 Participant of the project “Development of an innovative utility and maintenance platform”, VSoft SA, UDA-POIG.01.04.00-12-075/11-00.</li> <li>• 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.</li> <li>• 2011 Participant of the project “User interface based on natural gestures for exploration of virtual 3D spaces”, IITiS PAN, NN516405137.</li> <li>• 2004-2011 Leader of Software Department in CCNS SA in Cracow:</li> <li>• 2000-2004 One year long internship in Siemens AG/München/Germany.</li> </ul> <p><i>open source projects</i></p> <ul style="list-style-type: none"> <li>• 2006-2007 K.Rzecki et al., RFC 5222 contribution, „ECRIT – Emergency Context Resolution with Internet Technologies”, with Nokia-Siemens-Networks AG, <a href="http://ecrit.sourceforge.net/">http://ecrit.sourceforge.net/</a>.</li> <li>• 2005-2006 K.Rzecki et al., RFC 5106 contribution, „EAP-IKEv2 Extensible Authentication Protocol with Internet Key Exchange Protocol version 2”, with Siemens AG, <a href="http://eap-ikev2.sourceforge.net/">http://eap-ikev2.sourceforge.net/</a>.</li> </ul> <p><i>certificates</i></p> <ul style="list-style-type: none"> <li>• TOP 500 Innovators Program, UC Berkeley, CA/USA, Center for Executive Education, September 28 – November 27, 2015.</li> <li>• ITIL Foundation, APMG-International, 2013.</li> <li>• PRINCE2 Foundation, APMG-International, 2011.</li> </ul> <p><i>reviewer of papers submitted to</i></p> <ul style="list-style-type: none"> <li>• IEEE Transactions on Industrial Informatics</li> <li>• PLOS ONE</li> </ul> <p><i>reviewer of research project applications to:</i></p> <ul style="list-style-type: none"> <li>• National Centre for Research and Development</li> </ul>
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