

Candidate supervisor's information summary form
maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Prof Andrzej Śluzek (PhD, DSc)	
Academic discipline/disciplines	Information and communication technology
Professional development (degrees and titles) in chronological order	<p>MEng, Warsaw University of Technology, Faculty of Technical Physics and Applied Mathematics.</p> <p>PhD (discipline – automatic control and informatics), Warsaw University of Technology, Faculty of Electronics.</p> <p>DSc/habilitacja (discipline – automatic control and robotics), Warsaw University of Technology, Faculty of Electronics.</p> <p>Professor (discipline – informatics), President of Poland</p>
Most important publications/ patents in the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Śluzek, A. (2025). An Unorthodox Technique for Enhancing Monochrome Images of Natural Scenes, 6th Polish Conference on Artificial Intelligence PP-RAI 2025, April 2025 (accepted). 2. Śluzek, A. (2024). Incremental Image Decolorization with Randomizing Factors, 32nd European Signal Processing Conf. (EUSIPCO 2024), Lyon (France), August 2024, pp. 591-595, doi: 10.23919/EUSIPCO63174.2024.10715444. 3. Śluzek, A. (2023). Relationships between colorization and pseudo-colorization of monochrome images. <i>Machine Graphics and Vision</i>, 32 (3/4), p 65–82. doi: 10.22630/MGV.2023.32.3.4 4. A. Śluzek, M. Dudziński and T. Świsłocki (2023). Automatic Colorization of Digital Movies Using Decolorization Models and SSIM Index, <i>2023 18th Conference on Computer Science and Intelligence Systems (FedCSIS)</i>, Warsaw2023, pp. 843-853, doi: 10.15439/2023F3017. 5. Śluzek, A. (2023). On Unguided Automatic Colorization of Monochrome Images. <i>Computer Science Research Notes - CSRN</i> 3301, WSCG 2023, Plsen, p. 379-384, doi: 10.24132/CSRN.3301.38 6. Śluzek, A. (2023). Do we always need AI for image colorization?. Wojciechowski A.(Ed.), Lipiński P.(Ed.), <i>Progress in Polish Artificial Intelligence Research</i> 4, Łódź 2023, ISBN 978-83-66741-92-8, doi: 10.34658/9788366741928 7. Zitouni, M.S., Śluzek, A. (2022) <i>A Data Association Model for Analysis of Crowd Structure</i>, <i>International Journal of Applied Mathematics and Computer Science</i>, vol.32, no.1, 2022, pp.81-94, doi: 10.34768/amcs-2022-0007.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	<p>Advisor of 8 defended PhD dissertations (the most recent four mentioned below):</p> <p>M. Sami Zitouni: <i>Visual Analysis of Crowds for Socio-Cognitive Behaviors Understanding</i>. Khalifa University (Abu Dhabi, UAE), 2019.</p> <p>Sohailah Alyammahi: <i>Crowd Emotion Detection and Visualization from Stationary Video Feeds</i>. Khalifa University (Abu Dhabi, UAE), 2018.</p>

	<p>Elahe Farahzadeh: <i>Tools for Visual Scene Recognition using the Local Approach</i>. Nanyang Technological University (Singapore), 2014.</p> <p>Zhu Lin: <i>An Adaptive Edge-preserving Color Image Regularization Framework by Partial Differential Equations</i>. Nanyang Technological University (Singapore), 2012.</p>
Achievements in the area of projects/grants (in the last 5 years)	<p>2018 – 2023: principal investigator of <i>Visual Multi-spectral Semantic Analysis and Prediction using Unmanned Vehicles</i>, project RII.2 of KUCARS research center grant (Khalifa University). Effectively until 2021.</p> <p>2017 – 2019: external co-principal investigator of <i>Eyegaze estimation using deep appearance in natural environment</i>, grant AcRF 2017-T1-001-137, Ministry of Education (Singapore).</p>
Subject area of the research project for which the candidate student is being recruited	Improving the quality of image data from non-visual domains (IR, USG, MRI, X-ray, etc.) using colorization and decolorization methods to enhance the effectiveness of AI techniques analyzing this data. The topic can be extended to data from natural visual domains.
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