

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

Name and surname, degree, title: PhD, DSc, Konrad Furmańczyk, associate professor	
Academic discipline/disciplines	Information and communication technology
Professional development (degrees and titles) in chronological order	<p>1996 – MSc.- Faculty of Mathematics, Informatics and Mechanics, University of Warsaw</p> <p>2004 – PhD in mathematical sciences, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw</p> <p>2017 – DSc. in mathematical sciences. Faculty of Mathematics, Computer Science and Econometrics University of Zielona Góra</p>
Most important publications/ patents in the last 3 years (maximum 10)	<ol style="list-style-type: none"> 1. Furmańczyk K, Paczutkowski K, Dudziński M, Dziwida-Dawidczyk D, Classification and feature selection methods based on fitting logistic regression to PU data, Journal of Computational Science, 2023, vol. 72, s.1-11, Numer artykułu:102095. 2. Furmańczyk , Mielniczuk J, Rejchel W, Teisseyre, P, Double Logistic Regression Approach to Biased Positive-Unlabeled Data, W: ECAI 2023 / Gal Kobi [i in.] (red.), 2023, Amsterdam, IOS Press BV, s.764-771, ISBN 978-1-64368-436-9. DOI:10.3233/faia230342 3. P Teisseyre, K Furmańczyk, J Mielniczuk. Verifying the selected completely at random assumption in positive-unlabeled learning. ECAI 2024, 1672-1679 4. K Furmańczyk, W Niemiro, M Chrzanowska, M Zalewska. Network Model with Application to Allergy Diseases. International Conference on Computational Science, ICCS 2024, 105-112 5. Paczutkowski Kacper, Furmańczyk Konrad, Positive Unlabeled Classification Methods with Logistic Regression Revisited: An Evaluation of Optimization Techniques, Modeling Decisions for Artificial Intelligence / Torra Vicenç, Narukawa Yasuo, Domingo-Ferrer Josep (red.), Lecture Notes In Computer Science, 2026, Cham, Springer, s.227-238, DOI:10.1007/978-3-032-00891-6_18

Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	2020 auxiliary supervisor in PhD Sylwia Stachowiak, M.A IIT SGGW 2020 supervised in PhD Kacper Paczutkowski, M.A. (SGGW Doctoral School)
Achievements in the area of projects/grants (in the last 5 years)	
Subject area of the research project for which the candidate student is being recruited	The scope of my research works includes statistical data analysis (biomedical and epidemiological data), methods of mathematical statistics (testing multiple hypotheses, selection of variables in statistical models, classification in a misspecified statistical model, modeling data dependence by domes, statistical graphical models, time series). Statistical models for high-dimensional data, medical data analysis. Data mining methods in data analysis applications. Monte Carlo methods in data analysis.
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