

**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	
Scientific 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"> <li>1. Furmańczyk, K. Estimation of autocovariance matrices for high dimensional linear processes. <i>Metrika</i> (2021), vol. 84, nr 4, s.595–613</li> <li>2. Furmańczyk K, Dudziński M, Dziewa-Dawidczyk D, Some Proposal of the High Dimensional PU Learning Classification Procedure Computational Science – ICCS 2021. 21st International Conference, Krakow, Poland, June 16–18, 2021, Proceedings, Part III / Paszynski M. [i in.] (red.), Lecture Notes In Computer Science, 2021, vol. 12744, Cham, Springer, s.18-25, ISBN 978-3-030-77966-5</li> <li>3. Furmańczyk K, Pacutkowski K, Dudziński M Dziewa-Dawidczyk D, Classification methods based on fitting logistic regression to positive and unlabeled data W: Computational Science – ICCS 2022, 22nd International Conference, London, UK, June 21–23, 2022, Proceedings, Part I / Groen Derek [i in.] (red.), Lecture Notes In Computer Science, 2022, vol. 13350, nr Part I, Cham, Springer, s.31-45, ISBN 978-3-031-08750-9.</li> <li>4. Furmańczyk K, Pacutkowski K, Dudziński M Dziewa-Dawidczyk D, Classification and feature selection methods based on fitting logistic regression to PU data, <i>Journal of Computational Science</i>, 2023, vol. 72, s.1-11, Numer artykułu:102095.</li> <li>5. 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</li> </ol>

<p>Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order</p>	<p>2020 auxiliary supervisor in PhD Sylwia Stachowiak, M.A IIT SGGW</p> <p>2020 supervised in PhD Kacper Paczutkowski, M.A. (SGGW Doctoral School)</p> <p>2021 supervised in PhD Robert Wojciechowski, M.A. (SGGW Doctoral School)</p>
<p>Project/grants achievements (in the last 10 years)</p>	<p><i>From, 2008 to 2017, participation in the goal-oriented project no. 6 PO5 2005 C / 06572</i></p> <p><i>"Implementation of the system of prevention and early detection of allergic diseases in Poland"</i></p> <p><i>(ECAP - Epidemiology of Allergic Diseases in Poland), commissioned by the Minister of Health.</i></p> <p><i>I was in charge of the task: statistical data analysis in the ECAP study</i></p>
<p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p>	<p><i>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).</i></p> <p><i>Statistical models for high-dimensional data, medical data analysis.</i></p> <p><i>Data mining methods in data analysis applications. Monte Carlo methods in data analysis.</i></p>
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