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	
Discipline/ disciplines of science	Information and communication technology
Professional development (degrees and titles) in chronological order	1996 – MSc Faculty of Mathematics, Informatics and Mechanics, University of Warsaw 2004 – PhD in mathematical sciences, Faculty of Mathematics, Informatics and Mechanics, University of Warsaw 2017 – DSc. in mathematical sciences. Faculty of Mathematics, Computer Science and Ekonometrics University of Zielona Góra
Most important publications/patens over the last 3 years (maximum 10)	<ol> <li>Chmielewski, L, Furmańczyk, K, Orłowski, A. Combined change detector based on competitive filters and statistical tests. 2nd International conferece on applications of intelligent systems (APPIS 2019), DOI: 10.1145/3309772.3309803, Springer</li> <li>Furmańczyk, K, Rejchel, W. High-dimensional linear model selection motivated by multiple testing. Statistics (2020), 54(1) s. 152-166</li> <li>Furmańczyk, K, Rejchel, W. Prediction and Variable Selection in High-Dimensional Misspecified Binary Classification. Entropy (2020) 22(5), 543 Special Issue Nonparametric Statistical Inference with An Emphasis on Information-Theoretic Method</li> <li>Furmańczyk, K. Estimation of autocovariance matrices for high dimensional linear processes. Metrika (2020) DOI:10.1007/s00184-020-00790-2</li> <li>Furmańczyk K, Dudziński M, Dziewa-Dawidczyk D, Some Proposal of the High Dimensional PU Learning Classification Procedure, Computational Science – ICCS 2021. Lecture Notes In Computer Science, 2021, vol. 12744, Springer, s.18-25, ISBN 978-3-030-77966-5. DOI:10.1007/978-3-030-77967-2_2</li> </ol>

Experience in work with doctoral	PhD theses undergoing at IIT SGGW:
students (defended doctoral dissertations, doctoral programmes opened) in chronological order	2020 auxiliary supervisor in the process of Sylwia Stachowiak, MSc
	2020 supervisor in the conduct of Kacper Paczutkowski MSc (Doctoral School of Warsaw University of Life Sciences)
Project/grants achievements (from the last 10 years)	Since 2008, participation in the goal-oriented project no. 6 PO5 2005 C / 06572
	"Implementation of the system of prevention and early detection of allergic diseases in Poland" (ECAP - Epidemiology of Allergic Diseases in Poland), commissioned by the Minister of Health.
	I was in charge of the task: statistical data analysis in the ECAP study.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	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, graphical models, time series). PU learning. Stock market data analysis and Markovitz model.
	Statistical models for high-dimensional data, medical data analysis. Data mining methods in data analysis applications.  Monte Carlo methods in data analysis.
Contact details:	Institute of Information Technology
Faulty/Institute	konrad_furmanczyk@sggw.edu.pl
E-mail address	517 625 924
Tel.	