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

Name and surname, degree, title: Bartosz Świderski , D.Sc., Prof. SGGW (Warsaw Uni. Life Sc	
Scientific discipline/ disciplines	Information and communication technology
Professional development (degrees and titles) in	M.Sc. – computer science and econometrics (University of Lodz) - 2002
chronological order	Ph.D. – signal processing (Warsaw University of Technology) - 2007
	D.Sc biocybernetics and biomedical engineering, specialization: artificial intelligence (Warsaw University of Technology) - 2018
Most important publications/ patents in the last 3 years (maximum 10)	1. C.Chudobiński, B.Świderski , I.Antoniuk, J.Kurek, "Enhancements in Radiological Detection of Metastatic Lymph Nodes Utilizing Al-Assisted Ultrasound Imaging Data and the Lymph Node Reporting and Data System Scale", Cancers 16 (8), 1564, 2024
	2. B. Swiderski , S. Osowski, J. Kurek, C. Chudobinski, "Random Ensemble of Extended CNN Structures for Medical Image Recognition", International Work-Conference on Artificial Neural Networks, Springer, 483-493, 2023
	2. "Ensemble of classifiers based on deep learning for medical image recogition", F. Gil, S. Osowski, B. Świderski , M. Słowińska, Metrology and Measurement Systems, Vol. 30, ISSN 0860-8229, 2023
	3. "Random CNN structure-tool to increase generalization ability in deep learning", B. Świderski , S. Osowski, G. Gwardys, J. Kurek, M. Słowińska, I. Ługowska, EURASIP Journal on Image and Video Processing, 2022
	4. "Random Deep Neural Network for Melanoma Recognition", B. Świderski, S. Osowski, P. Olszewski, Ł. Gielata, M. Słowińska, I. Ługowska, International Joint Conference on Neural Networks (IJCNN), 2021
	5. "Deep neural system for supporting tumor recognition of mammograms using modified GAN", B. Świderski , Ł. Gielata, P. Olszewski, S. Osowski, M. Kołodziej, Expert Systems with Applications, 164, 113968, 2021
	6. "Application of Siamese Networks to the Recognition of the Drill Wear State Based on Images of Drilled Holes", J. Kurek, I. Antoniuk, B. Świderski, A. Jegorowa, M. Bukowski, Sensors 20 (23), 6978, 2020

Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	Assistant supervisor: M.Sc. Grzegorz Wieczorek, "Computer analysis of microscopic images supporting the diagnosis of ductal carcinoma breast cancer", 2017 Reviewer: Ph.D. theses, "Three-dimensional reconstruction of the intestinal glands based on the sequence of microscopic images", R. I. Roszczyk, Warsaw University of Technology, Information and communication technology, 2021
Project/grants achievements (in the last 10 years)	NVIDIA GPU Grant Program, Academic Program Team, 2018
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Development of artificial intelligence (especially deep learning methods). Application of artificial intelligence methods in biomedicine. Random Network, Siamese Network, Generative Adversarial Network, UNET3D, Pose Estimation, Alpha Fold
Contact details: Institute E-mail address Tel.	Faculty of Applied Informatics and Mathematics / Institute of Information Technology, Department of Artificial Intelligence e-mail: bartosz_swiderski@sggw.edu.pl , http://www.wzim.sggw.pl/bartosz_swiderski/ phone: 22 59 37 241