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

Name and surname, degree, title:	*Jaroslaw Kurek*, D.Sc.Eng., Prof. SGGW (Warsaw Uni. Life Sc.)
Discipline/ disciplines of science	Information and communication technology
Professional development (degrees and titles) in chronological order	**M.Sc**. – computer science (Warsaw University of Technology) - **2004** **Ph.D**. – Electrotechnics (Warsaw University of Technology) - **2008** **D.Sc**. - Information and communication technology, specialization: artificial intelligence (The West Pomeranian University of Technology in Szczecin) - **2019**
Most important publications/patens over the last 3 years (maximum 10)	1. Świderski Bartosz, Osowski Stanislaw, Gwardys Grzegorz [i in.]: Random CNN structure: tool to increase generalization ability in deep learning, Eurasip Journal on Image and Video Processing, 2022, vol. 2022, nr 1, s.3— 2. Bukowski Michał, Kurek Jarosław, Antoniuk Izabella [i in.]: Decision Confidence Assessment in Multi-Class Classification, Sensors, 2021, vol. 21, nr 11, s.1-15, Numer artykułu:3834. DOI:10.3390/s21113834 3. Jegorowa Albina, Kurek Jarosław, Antoniuk Izabella [i in.]: Deep learning methods for drill wear classification based on images of holes drilled in melamine faced chipboard, Wood Science and Technology, 2021, vol. 55, nr 1, s.271-293. DOI:10.1007/s00226-020-01245-7 4. Tomasz Ronkiewicz, Aleksiejuk-Gawron Joanna, Awtoniuk Michał [i in.]: Neural modelling of solar radiation variability, Journal of Physics - Conference Series, 2021, vol. 1765, s.1-11, Numer artykułu:012015. DOI:10.1088/1742-6596/1736/1/012015 5. Jegorowa Albina, Antoniuk Izabella, Kurek Jarosław [i in.]: Time-efficient Approach to Drill Condition Monitoring Based on Images of Holes Drilled in Melamine Faced Chipboard, Bioresources, 2020, vol. 15, nr 4, s.9611-9624. DOI:10.15376/biores.15.4.9611-9624 6. Jegorowa Albina, Górski Jarosław, Kurek Jarosław [i in.]: Use of nearest neighbors (k-NN) algorithm in tool condition identification in the case of drilling in melamine faced particleboard, Maderas-Ciencia y Tecnologia, 2020, vol. 22, nr 2, s.189-196. DOI:10.4067/S0718-221X2020005000205 7. Kurek Jarosław, Antoniuk Izabella, Świderski Bartosz [i in.]: Application of Siamese Networks to the Recognition of the Drill Wear State Based on Images of Drilled Holes, Sensors, 2020, vol. 20, nr 23, s.1-16, Numer artykułu:6978. DOI:10.3390/s20236978 8. Jegorowa Albina, Górski Jarosław, Kurek Jarosław [i in.]: Initial study on the use of support vector machine (SVM) in tool

	condition monitoring in chipboard drilling, European Journal of Wood and Wood Products (HOLZ ALS ROH-UND WERKSTOFF), 2019, vol. 77, nr 5, s.1-3. DOI:10.1007/s00107-019-01428-5
	9. Kurek Jarosław, Antoniuk Izabella, Górski Jarosław [i in.]: Classifiers Ensemble of Transfer Learning for Improved Drill Wear Classification Using Convolutional Neural Network, Machine Graphics & Vision, 2019, vol. 28, nr 1/4, s.13-23. DOI:10.22630/MGV.2019.28.1.2
	10. Kurek Jarosław, Antoniuk Izabella, Górski Jarosław [i in.]: Data Augmentation Techniques for Transfer Learning Improvement in Drill Wear Classification Using Convolutional Neural Network, Machine Graphics & Vision, 2019, vol. 28, nr 1/4, s.3-12. DOI:10.22630/MGV.2019.28.1.1
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Assistant supervisor: MSc. Albina Jegorowa "Automatic identification of the tool wear condition when drilling in laminated chipboard," Warsaw University of Life Sciences, Faculty of Wood Technology, Date of doctoral thesis defense: 26/06/2018, field: forest science, discipline: wood industry, defended with honors.
Project/grants achievements (from the last 10 years)	Participation in national research projects 1. N506 395135, Innovative methodology for the interpretation of in situ tests of pre-consolidated soils, taking into account the principles of Eurocode 7, Head: prof. Zbigniew M. Lechowicz, Warsaw University of Life Sciences, Faculty of Engineering and Environmental Management, 2008-2011 2. N506 218039, Geotechnical design of structures according to Eurocode 7 - IT platform, Head: prof. Kazimierz Garbulewski, Warsaw University of Life Sciences, Faculty of Engineering and Environmental Management, 2010-2013 3. 2011/03 / D / ST8 / 04309, Modern artificial intelligence algorithms in geotechnical data analysis, Head: dr inż. Piotr Bilski, Warsaw University of Life Sciences, Faculty of Applied Informatics and Mathematics 2012-2015
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Applications and development of artificial intelligence (machine learning and deep learning).
Contact details: Faulty/Institute E-mail address Tel.	Institute of Information Technology, Department of Artificial Intelligence e-mail:jaroslaw_kurek@sggw.edu.pl, https://bw.sggw.edu.pl/info.seam?affil=&ps=20&id=WULSce95bc7d9d6b47ef95baf18a4a9d9ed1&lang=en&pn=1&cid=394206

	tel: +48 505-482-708