Candidate supervisor's information summary form

maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title:	***Ryszard Kozera***, ***D.Sc.***, Prof. SGGW (Warsaw Uni. of Life Sciences - SGGW)
Academic discipline/disciplines	Information and Communication Technology
Professional development (degrees and titles) in chronological order	***MSc.:*** maths (Warsaw Uni.), ***1985***. ***PhD:*** comp. sc. (Flinders Uni. South Australia), **1991**. ***Dr:*** maths (Warsaw Uni.), **1992** – recognition of ***b)***. ***D.Sc.:*** technical sc., comp. sc. (Silesian Uni. Tech.), **2006.**
Most important publications/ patents in the last 3 years (maximum 10)	***1 .****"TfELM: Extreme Learning Machines framework with Python and TensorFlow"*, K. Struniawski, ***R. Kozera***, SoftwareX, 27, ***2024*** *(200pkt)*. ***2.****"Automated identification of soil fungi and chromista through convolutional neural networks"*, K. Struniawski, ***R. Kozera***, P. Trzciński et al., Eng. Appl. Art. Intell., 127B, 1-12, ***2024*** *(140pkt)*. ***3.*** *"Exploring Apple Silicon's potential from simulation and optimization perspective",* K. Struniawski, A. Konopka, ***R. Kozera,*** LNCS 14836, Int. Conf. Comput. Sc. (ICCS'24, Malaga), 35-42, ***2024*** *(140pkt)*. ***4.*** *"Extreme learning machine for identifying soil-dwelling microorganisms cultivated on agar media",* K. Struniawski, ***R. Kozera,*** R. Trzciński et al., Sc. Reports, 14, 1-23, ***2024*** *(140pkt).* ***5.****"Optimal knots selection in fitting degenerate reduced data",* ***R. Kozera,*** L. Noakes, LNCS 10475, Int. Conf. Comput. Sc. (ICCS'23, Prague), 439-453, ***2023*** *(140pkt).* ***6.****"Performance selected nature-inspired Mataheuristic Algorithms used for extreme learning machine",* *K. Struniawski,* ***R. Kozera,*** A. Konopka, LNCS 10475, Int. Conf. Comput. Sc. (ICCS'23, Prague), 498-512, ***2023*** *(140pkt).* ***7.****"Identification of selected soil bacteria genra based on their geometric and dispersion features"*, A. Konopka, ***R. Kozera***, L. Sas-Paszt et al., PLoS ONE, 18(10), 1-11, ***2023*** *(140pkt).* ***8.****"Classification performance of ELM radial basis function with K-means, K-medoids and Mean Shif Clustering"*, A. Konopka, K. Struniawski, ***R. Kozera***, LNCS 10475, Int. Conf. Comput. Sc. (ICCS'23, Prague), 498-512, ***2023*** *(140pkt).* ***9.****"Non-generic case of Leap-Frog Algorithm for optimal knots selections in fitting reduced data",* ***R. Kozera****,* L. Noakes, LNCS 1335, Int. Conf. Comput. Sc. (ICCS'22, London), 341-354, ***2022*** *(140pkt).* ***10.****"Classification of soil bacteria based on machine learning and image processing",* A. Konopka, K. Struniawski***, R. Kozera***

	et al., LNCS 13352, Int. Conf. Comput. Sc. (ICCS'22, London), 263-277, ***2022*** *(140pkt).* **145 publications** (journal & conference proceedings' papers or monographs' chapters) - **2** each over **100** page papers.
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	***1. Dr S. Collings*** (maths & comp. science), The Uni. Western Australia, Australia (***conferred*** in ***2007***) - *"Frontier Points Theorems and Methods for Computer Vision"* - ***5 publications*** referring to Ph.D. topic. ***2. Dr M. Dolecki*** (computer science), Silesian Uni. Tech., Poland (***conferred*** in ***2014***) - *"Classification of Synchronization Time for Tree Parity Machine Used for Reconciliation of Cryptographic Keys"* - ***6 publications*** referring to Ph.D. topic. ***3. Dr M. Wilkołazka*** (computer science), Silesian Uni. Tech. Poland (***conferred with distinction*** in ***2024***) – *„Interpolation of Reduced Data Based Piecewise Cubics"* – ***11 publications*** referring to Ph.D topic ***Current initiated supervision: 2 PhD students.*** **Reviewer: 6 Ph.D. theses** (Australia, New Zealand, Poland, Singapore, United Arab Emirates) and **1 D.Sc. thesis** and **1 D.Sc. monograph** referee (both in Poland).
Achievements in the area of projects/grants (in the last 5 years)	***a)*** Participation in project with Horticulture Institute, Skierniewice, Poland - National Center of Research and Development (IS2/41/NCBR/2015), 2015-2017. ***b)*** Visit. Research Fellowship, School of Maths & Stats, Uni. Western Australia, Perth, Australia, 2015-2016. ***c)*** Participation in project: New technologies of the high resolution face animation and acquisition, Polish-Japanese of Academy of Information Technology, Bytom, Poland - National Center of Research & Development, 2015. ***d)*** Participation in EU project: Elaboration of Innovative Products for Ecological Cultivation of Horticultural Plants, EkoTechProdukt UDAPOIG.01.03.01-00-109/08, Intel. Methods for Recogn. of Microorganism in Soil Environment, with Horticulture Inst., Skierniewice, Poland, 2013-15. ***Previous projects: 5 in Germany (Alexander von Humboldt Fellow 3 times, Berlin and Kiel) and 2 in Australia (Perth).***
Subject area of the research project for which the candidate student is being recruited	Comp. vision & graphics, image analysis & processing, art. Intell., numer. methods, optimization, data modelling, interpolation, appl. maths in comp. sc., medicine, biology & engineering.
<u>Contact details:</u> Institute E-mail address Telephone number	Inst. Information Technology (**The Director**), Dept. Inf. Systems. e-mails: ryszard_kozera@sggw.edu.pl, ryszard.kozera@gmail.com tel.: 22 59 372 79