Candidate supervisor's information summary form

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

Name and surname, degree, title: ***Michał Szymański***, D.Sc.	
Discipline/ disciplines of science	Information and communication technology Automation, electronics and electrical engineering
Professional development (degrees and titles) in chronological order	***MSc –*** electronics (Warsaw University of Technology), ***1993***. **Ph.D.** - technical sciences (Institute of Electron Technology, Warsaw), **2000**. ***D.Sc.*** - technical sciences, discipline: electronics (Institute of Electron Technology, Warsaw) - **2017**.
Most important publications/patens over the last 3 years (maximum 10)	***1. "***From Two- to Three-Dimensional Model of Heat Flow in Edge-Emitting Laser: Theory, Experiment and Numerical Tools", **M. Szymański**, A. Kozłowska, J. Tomm, R. Huk, A. Maląg, M. Rusek, *Energies,* vol. 14, 7006, str. 1-14, ***2021***. ***2.****"High-Power 1770 nm Emission of a Membrane External-Cavity Surface-Emitting Laser",* A. Broda, B. Jeżewski, **M. Szymański**, J. Muszalski, *IEEE Journal of Quantum Electronics*, vol. 57, no. 1, pp. 1-6, ***2021***. **3.** " Two-dimensional model of heat flow in edge-emitting laser revisited: A new and more versatile approach***", M. Szymański,*** A. Kozłowska, A. Maląg, P. Hoser, *International Journal of Numerical Modelling: Electronic Networks, Devices and Fields,* e2745, pp. 1-10, ***2020***. **4.** "Growth and characterization of InP-based 1750 nm emitting membrane external-cavity surface-emitting laser***",*** A. Broda, B. Jeżewski, I. Sankowska, ***M. Szymański,*** P. Hoser, J. Muszalski, *Applied Physics B* 126**,** 192, ***2020***. **5.** *"Optimization of technology of diode laser mirror processing to maximize the threshold of catastrophic optical degradation",* E. Dąbrowska, M. Teodorczyk, **M. Szymański**, A. Maląg, *Optica Applicata*, Vol. L, No. 4, ***2020***.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	
Project/grants achievements (from the last 10 years)	
Topic – research problem – for which the candidate supervisor	Mathematical modeling of semiconductor devices with particular emphasis on heat flow, waveguide effects and propagation of

seeks a doctoral student	radiation through multilayered structures. Application of global optimization methods.
Contact details: Faulty/Institute E-mail address/ tel.	Faculty of Applied Informatics and Mathematics / Institute of Information Technology, Department of IT Systems e-mail: michal_szymanski@sggw.edu.pl, tel.: 22 59 37 310