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

Name and surname, degree, title: Prof Andrzej Śluzek (PhD, DSc)	
Discipline/ disciplines of science	Information and communication technology
Professional development (degrees and titles) in chronological order	MEng , Warsaw University of Technology, Faculty of Technical Physics and Applied Mathematics.
	PhD (discipline – automatic control and informatics), Warsaw University of Technology, Faculty of Electronics.
	DSc/habilitacja (discipline – automatic control and robotics), Warsaw University of Technology, Faculty of Electronics.
	Professor (discipline – informatics), President of Poland
Most important publications/patens over the last 3 years (maximum 10)	 S.AI Mazrouei, A.Śluzek Simple Methodology for Eye Gaze Direction Estimation. Proc. ACIIDS 2021, Springer Communications in Computer and Information Science, vol 1371, pp 241-253, April 2021 M.S.Zitouni, A.Sluzek, Mid-level Features for Categorization of Social Interactions in Public Spaces, 16th Int. Conf. on Control, Automation, Robotics and Vision (ICARCV 2020), pp 1150-1155, Dec. 2020. M.S.Zitouni, A.Sluzek, Video-surveillance Tools for Monitoring Social Responsibility under Covid-19 Restrictions, Int. Conf. on Computer Vision and Graphics ICCVG 2020, Springer LNCS vol.12334, pp 227-239, Sept. 2020. M.S.Zitouni, A.Sluzek, H.Bhaskar, Towards understanding socio- cognitive behaviors of crowds from visual surveillance data, Multimedia Tools and Applications, vol.79(3), pp 1781-1799, 2020. A.Obeid, A.Takiddeen, A.S.Sluzek. ICSAC: Towards Outliers Rejection and Multi-model Identification in Keypoint-based Matching of Partial Near-duplicates, 16th ACS/IEEE Int. Conf. on Comp. Syst. & Appl. AICCSA 2019, Abu Dhabi, Nov. 2019. E.N.Salahat, H.Saleh, A.Sluzek, M.Al-Qutayri, B.Mohammad, M.Ismail, Architecture and Method for Maximally Stable Extremal Regions (MSERs)-based Exudates Detection in Fundus Images for Diabetic Retinopathy, US Patent 10,456,027 B2, 29 Oct. 2019. M.S.Zitouni, A.Sluzek, MSER-based Framework for Classification of Objects in Thermal Images, 16th Int. Conf. on Informatics in Control, Automation and Robotics ICINCO 2019, July 2019. A. Aljasmi, A.Śluzek, MSER-based Framework for Classification of Objects in Thermal Images, 16th Int. Conf. on Informatics in Control, Automation and Robotics ICINCO 2019, July 2019. M.S.Zitouni, A.Sluzek, H.Bhaskar, Visual Analysis of Socio- Cognitive Crowd Behaviors for Surveillance: A Survey and Categorization of Trends and Methods, Engineering Applications of Artificial Intelligence, vol.82, pp 294-312, June 2019. Y.Liu, B.S.Lee, D.Rajan, A.

Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Advisor of 8 defended PhD dissertations (the most recent four mentioned below):
	 M. Sami Zitouni: Visual Analysis of Crowds for Socio-Cognitive Behaviors Understanding. Khalifa University (Abu Dhabi, UAE), 2019. Sohailah Alyammahi: Crowd Emotion Detection and Visualization from Stationary Video Feeds. Khalifa University (Abu Dhabi, UAE), 2018. Elahe Farahzadeh: Tools for Visual Scene Recognition using the Local Approach. Nanyang Technological University (Singapore), 2014. Zhu Lin: An Adaptive Edge-preserving Color Image Regularization Framework by Partial Differential Equations. Nanyang Technological University (Singapore), 2012.
	External co-advisor of 2 confirmed PhD projects:
	 Maya Alhemeiri: Multi-spectral Segmentation, Semantic Analysis and Prediction of Visual Data. Khalifa University (Abu Dhabi, UAE), 2020. Xiaoxiong Zhang, Persistent Person Identification and Tracking in Public Scenes. Khalifa University (Abu Dhabi, UAE), 2021.
Project/grants achievements (from the last 10 years)	 2018 – 2023: principal investigator of Visual Multi-spectral Semantic Analysis and Prediction using Unmanned Vehicles, project RII.2 of KUCARS research center grant (Khalifa University). 2017 – 2019: external co-principal investigator of Eyegaze estimation using deep appearance in natural environment, grant AcRF 2017-T1-001-137, Ministry of Education (Singapore). 2014 – 2016: co-principal investigator of KUIRF level 2 research grant (Khalifa University, UAE) Compliant Exoskeleton: Shared Autonomous Mobile Robot Manipulation Using a Compliant Exoskeleton. 2013 - 2017: task leader in Semiconductor Research Center (USA/UAE) grant Wireless Baseband: SoC for Biomedical and Surveillance Applications (Task ID: 2440.010). 2009 – 2012: co-principal investigator of AcRF (Ministry of Education, Singapore) research grant RG17/08 Object co-space matching for the visually impaired. 2008 – 2011: principal investigator of A*Star ((National Science & Technology Board, Singapore) research grant "Framework for Visual Information Retrieval and Building Content-based Visual Search Engines".
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Intelligent algorithms for machine vision, focusing on applications in surveillance systems and mobile robotics. Preliminarily, two areas are considered:
	 monitoring and analysis of group behavior of animals, surveillance and predictive analysis of natural environments
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