Candidate supervisor's information summary form

Name and surname, degree, title: dr. hab. Dariusz Gozdowski	
Discipline/ disciplines of science	Agriculture and horticulture
Professional development (degrees and titles) in chronological order	MSc. in agriculture/agronomy – 1999 PhD in agriculture/agronomy – 2005 Habilitation in agriculture/agronomy – 2017 Faculty of Agriculture and Biology, Warsaw University of Life Sciences - SGGW
Most important publications/patens over the last 3 years (maximum 10)	1. Gozdowski, D. (2016). Relationships between selected soil properties examined by the LUCAS project and satellite-derived vegetation indices for Poland. Fresenius Environmental Bulletin, 25(2), 641-646. 2. Samborski, S. M., Gozdowski, D., Stępień, M., Walsh, O. S., & Leszczyńska, E. (2016). On-farm evaluation of an active optical sensor performance for variable nitrogen application in winter wheat. European Journal of Agronomy, 74, 56-67. 3. Stępień, M., Gozdowski, D., Samborski, S., Dobers, E. S., Szatyłowicz, J., & Chormański, J. (2016). Validation of topsoil texture derived from agricultural soil maps by current dense soil sampling. Journal of Plant Nutrition and Soil Science, 179(5), 618-629. 4. Gozdowski, D., Leszczyńska, E., Stępień, M., Rozbicki, J., & Samborski, S. (2017). Within-field variability of winter wheat yield and grain quality versus soil properties. Communications in Soil Science and Plant Analysis, 48(9), 1029-1041. 5. Samborski S. (red.). (2018). Rolnictwo precyzyjne. PWN Warszawa. Współautorstwo wybranych rozdziałów podręcznika 6. Panek, E., Gozdowski, D. (2020). Analysis of relationship between cereal yield and NDVI for selected regions of Central Europe based on MODIS satellite data. Remote Sensing Applications: Society and Environment, 17100286.. 7. Gozdowski, D., Stępień, M., Panek, E., Varghese, J., Bodecka, E., Rozbicki, J., & Samborski, S. (2020). Comparison of winter wheat NDVI data derived from Landsat 8 and active optical sensor at field scale. Remote Sensing Applications: Society and Environment, 20, 100409. 8. Panek, E., & Gozdowski, D. (2021). Relationship between MODIS Derived NDVI and Yield of Cereals for Selected European Countries. Agronomy, 11(2), 340. 9. Panek, E., Gozdowski, D., Stępień, M., Samborski, S., Ruciński, D., & Buszke, B. (2020). Within-Field Relationships between Satellite-Derived Vegetation Indices, Grain Yield and Spike Number of Winter Wheat and Triticale. Agronomy, 10(11), 1842.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Auxiliary suprevisor in two doctoral dissertations: Agnieszka Wnuk (2014) Data visualization in a multiplicative model in agronomy and plant breeding; Paulina Brągoszewska (2017): Reactions of selected tree species to salt stress in the urban environment Two doctoral dissertations in progress: Ewa Panek (2019): Comparison of the usefulness of vegetation indices in assessing the condition of cereals and forecasting crop yields based on satellite data from various sources; Piotr Mazur (2019): Optimization of phosphorus and potassium fertilization including crop yield model based on site data, multispectral assessment of plant condition and partial soil richness studies

Project/grants achievements (from the last 10 years)	2017-2019 - FERTISAT - Satellite-based Service for Variable Rate Nitrogen Application in Cereal Production (European Space Agency) – head of workpackages conducted in WULS-SGGW 2013-2015 - BIOPRODUCTS, innovative technologies for the production of healthy bakery products and low-calorie pasta (NCBR) - participant, 2009-2012 - Optimization of nitrogen fertilization of winter wheat using a remote sensing and assessment of the usefulness of soil electrical conductivity measurement for delineation of management zones in crop fields (MNSzW) - participant. 2009-2012 - Investigation of winter wheat grain yield by crop-forming characteristics of plants (MNSzW) - participant.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Preferred subject: The use of medium resolution satellite images (Sentinel, Landsat) to monitor the condition of agricultural crops at various spatial scales. (other related topics are also possible).
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