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

| Name and surname, degree, title: Professor Mariusz Żółtowski | |
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| Academic discipline/disciplines | Civil Engineering, Surveying, and Transportation |
| Professional development (degrees and titles) in chronological order | 2021 – Technical University of Ostrava (Czech Republic) [VSB-Ostrava], Faculty of Civil Engineering, field of study: civil engineering, PhD in technical sciences, in the discipline of Civil Engineering and Transport. Title of habilitation thesis:<br>Measures of Vibration Energy Distribution in Buildings Materials and Components Testing.<br>2009 – Szczecin University of Technology in Szczecin, Faculty of Civil Engineering and Architecture, major: Civil Engineering, PhD in Civil Engineering.<br>2000-2005 - University of Warmia and Mazury in Olsztyn, Faculty of Technical Sciences, major in Civil Engineering, full-time studies, Master of Science degree. |
| Most important publications/ patents in the last 3 years (maximum 10) | Vibration Energy Signal Information for Measure Dynamic Preferences of Ceramic Building Materials Using Experimental Modal Analysis Methodology<br>Żółtowski Mariusz, Rutkowska Gabriela, Liss Michał [i in.], Materials, 2022, vol. 15, nr 4, s.1-14, Numer artykułu:1452. Przejdź do dokumentu po identyfikatorze cyfrowym DOI:10.3390/ma15041452<br>The Use of Modal Analysis in Addition Percentage Differentiation, and Mechanical Properties of Ordinary Concretes with the Addition of Fly Ash from Sewage Sludge<br>Rutkowska Gabriela, Żółtowski Mariusz, Liss Michał, Materials, 2021, vol. 14, nr 17, s.1-24, Numer artykułu:5039. Przejdź do dokumentu po identyfikatorze cyfrowym DOI:10.3390/ma14175039<br>Modelling in the identification of threats to the functioning of technical systems<br>Żółtowski Bogdan, Żółtowski Mariusz, Castañeda Lionel F., Systemy Logistyczne Wojsk, 2023, nr 58, s.3-22<br>Vibration Signal Diagnostic Information of Reinforced Masonry Elements Destruction<br>Żółtowski Mariusz, Żółtowski Bogdan, Ogrodnik Paweł [i in.], Applied Sciences-Basel, 2023, vol. 13, s.1-15, Numer |

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| | artykułu:4913. Przejdź do dokumentu po identyfikatorze cyfrowym DOI:10.3390/app13084913<br>Modal analysis research for prevending bridge construction disasters<br>Żółtowski Mariusz, Baryłka Adam, Ogrodnik Paweł [i in.], Inżynieria Bezpieczeństwa Obiektów Antropogenicznych, 2024, nr 4, s.23-34. Przejdź do dokumentu po identyfikatorze cyfrowym DOI:10.37105/iboa.234 |
| Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order | Assistant supervisor – in the preparation of the doctoral dissertation of Katarzyna WOŹNICKA, M.Sc.: "Shaping the quality of a company's products based on innovative maintenance of the production system's suitability" submitted at the Częstochowa University of Technology, resolution of the Academic Council of May 30, 2017 (R-WIPiTM-337/2017) |
| Achievements in the area of projects/grants<br>(in the last 5 years) | none |
| Subject area of the research project for which the candidate student is being recruited | Vibration measures in the description of condition degradation:<br>➢ description of the dynamics of degradation changes,<br>➢ description of the vibration signal generation model,<br>➢ model of vibration signal transmission in the structure,<br>➢ vibration signal measures (simple and complex),<br>➢ selection of vibration measurement information,<br>➢ binding models: condition – signal,<br>➢ descriptions of research into changes in the degradation of the condition of structures and machines.<br>Modal analysis methods in structural testing:<br>➢ vibration signal in the modal model,<br>➢ EAM in description and testing,<br>➢ OAM in description and testing,<br>➢ improvement of FEM using AM methods,<br>➢ modal measures in practical applications. |
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