

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

Name and surname, degree, title: : Mariusz Żółtowski, PhD, DSc, Eng.	
Scientific discipline/ disciplines	Civil Engineering and Transportation
Professional development (degrees and titles) in chronological order	2009 – PhD in technical sciences, civil engineering, Szczecin University of Technology 2021 – Habilitated Doctor of Technical Sciences, Civil Engineering, VSB-TUO Ostrava (Czech Republic)
Most important publications/ patents in the last 3 years (maximum 10)	1. Żółtowski Mariusz: Vibration measurement in the degradation study of building construction materials, Acta Scientiarum Polonorum. Architectura, Wydawnictwo SGGW, vol. 22, 2023, s. 20-29, DOI:10.22630/aspa.2023.22.3, 40 punktów 2. Rutkowska Gabriela, Żółtowski Mariusz, Ogrodnik Paweł: Fly ash from sewage sludge as a component of concrete mix resistant to environmental influence, Zeszyty Naukowe / Akademia Morska w Szczecinie, Wydawnictwo Naukowe Akademii Morskiej w Szczecinie, vol. 76, nr 148, 2023, s. 65-72, DOI:10.17402/587, 70 punktów, IF(0,4) 3. Wierzbicki Tomasz, Królikowska Agnieszka, Żółtowski Mariusz: Weathering steel bridge structure after 30 years of service - assessment experience, ce/papers : the online collection for conference papers in civil engineering, Wilhelm Ernst und Sohn, vol. 6, nr 5, 2023, s. 1048-1052, DOI:10.1002/cepa.2127, 5 punktów 4. Żółtowski Bogdan, Żółtowski Mariusz, Castañeda Lionel F.: Modelling in the identification of threats to the functioning of technical systems, Systemy Logistyczne Wojsk, Wojskowa Akademia Techniczna, nr 58, 2023, s. 3-22, 100 punktów 5. Żółtowski Bogdan, Żółtowski Mariusz, Ogrodnik Paweł, Przybylski Patryk: MAINTENANCE OF VEHICLES IN LOGISTICS OF EXPLOITATION, Przedsiębiorstwo Przyszłości, Wyższa Szkoła Zarządzania i Prawa im. Heleny Chodkowskiej, nr 4(57), 2023, s. 108-127, 140 punktów 6. Żółtowski Bogdan, Tkaczyk Stanisław, Żółtowski Mariusz, Ogrodnik Paweł: COMPANY INFORMATION TECHNIQUES IN PRODUCTION ENGINEERING, Przedsiębiorstwo Przyszłości, Wyższa Szkoła Zarządzania i Prawa im. Heleny Chodkowskiej, nr 1(58), 2024, s. 121-136, 20 punktów 7. Jeleniewicz Katarzyna, Rutkowska Gabriela, Żółtowski Mariusz, Kula Dorota: Influence of ground waste glass addition on concrete prepared with their participation properties, Zeszyty Naukowe / Akademia Morska w Szczecinie, Wydawnictwo Naukowe Akademii

	Morskiej w Szczecinie, vol. 73 (145), 2023, s. 46-53, DOI:10.17402/554, 70 punktów, IF(0,4) 8. Castañeda Leonel F., Krejsa Martin, Chalecki Marek, Żółtowski Mariusz, Żółtowski Bogdan: RESEARCH ON THE DEGRADATION OF CONSTRUCTION AND BUILDING MATERIALS WITH THE USE OF VIBRATION PROCESSES, Acta Scientiarum Polonorum. Architectura, Wydawnictwo SGGW, vol. 22, 2023, s. 110-125, DOI:10.22630/ASPA.2023.22.12, 40 punktów 9. Rutkowska Gabriela, Żółtowski Mariusz, Filip Chyliński, Trach Yuliia, Gortych Elżbieta: The Effect of Glass Flour on The Microstructure and Properties of Fiber-Reinforced Concrete: Experimental Studies, Applied Sciences-Basel, MDPI, vol. 13, nr 21, 2023, Numer artykułu: 11937, s. 1-17, DOI:10.3390/app132111937, 100 punktów, IF(2,7) 10. Żółtowski Mariusz, Żółtowski Bogdan, Ogrodnik Paweł, Rutkowska Gabriela, Wierzbicki Tomasz: Vibration Signal Diagnostic Information of Reinforced Masonry Elements Destruction, Applied Sciences-Basel, MDPI, vol. 13, 2023, Numer artykułu: 4913, s. 1-15, DOI:10.3390/app13084913, 100 punktów, IF(2,7) 11. Rutkowska Gabriela, Żółtowski Mariusz, Rusakov Konstantin, Pawluk Katarzyna, Andrzejak Joanna, Żółtowski Bogdan: The Influence of Fly Ash from Sewage Sludge on the Concrete Carbonation Course, Buildings, MDPI, vol. 13, nr 7, 2023, Numer artykułu: 1838, s. 1-16, DOI:10.3390/buildings13071838, 70 punktów, IF(3,8) 12. Ogrodnik Paweł, Rutkowska Gabriela, Powęzka Aleksandra, Żółtowski Mariusz, Szulej Jacek, Wiśniewski Krzysztof, Howorus Patryk: Research on the Effect of Fire Thermal Energy on the Microstructure and Properties Mechanical of Fiber-Reinforced Cement Mortars, Energies, MDPI, vol. 16, nr 18, 2023, Numer artykułu: 6450, s. 1-21, DOI:10.3390/en16186450, 140 punktów, IF(3,2) 13. Żółtowski Mariusz, Rutkowska Gabriela, Liss Michał, Kałaczyński Tomasz, Krejsa Martin: Vibration Energy Signal Information for Measure Dynamic Preferences of Ceramic Building Materials Using Experimental Modal Analysis Methodology, Materials, MDPIAG, vol. 15, nr 4, 2022, s. 1-14, DOI:10.3390/ma15041452, 140 punktów, IF(2,972) 14. Rutkowska Gabriela, Żółtowski Mariusz, Liss Michał: The Use of Modal Analysis in Addition Percentage Differentiation, and Mechanical Properties of Ordinary Concretes with the Addition of Fly Ash from Sewage Sludge, Materials, MDPIAG, vol. 14, nr 17, 2021, s. 1-24, DOI:10.3390/ma14175039, 140 punktów, IF(2,972)
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	Defended doctorates: Katarzyna Radecka (field of technical sciences, discipline of production engineering) "Shaping the quality of the company's products based on innovative maintenance of the suitability of the production system" (2019).– assistant supervisor.

Achievements in the area of projects/grants (in the last 5 years)	1. Participation in a research project (contractor) under the Innovative Economy Operational Programme, 2009 – 2012, entitled: Virtual techniques in the study of the condition, safety and environmental hazards of machines in operation - WND-POIG.01.03.01-00-212/09, Bydgoszcz, Poland 2009-2012. 2. Participation in an international research project (contractor) of the GEMI research group conducted at the Faculty of Mechanical Engineering of the EAFIT University in Medellin, Colombia 2011. 3. Participation in the research projection (contractor) of the research group: The Berkeley Micromechanical Analysis and Design (BMAD) at the University of California, Berkeley, USA 2013. 4. Contractor in the project POIG 01.04.00-14-067/13 under the Innovative Economy Operational Programme, measure 1.4 for the implementation of the project entitled "Innovative means of de-icing motor vehicles and ground infrastructure". Project implementation period: 01.06.2014 to 30.11.2015.
Subject area of the research project for which the candidate student is being recruited	1. Non-invasive methods of testing the properties of building materials. 2. The use of modal analysis methodology in the assessment of the destruction of structural elements.
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