

The Competition for the Best Dissertation Defended in 2018

Final results Best 5 dissertations defended in 2018

Economics, Finance and Management	
• Dobrochna Sztajerska	• Grzegorz Krawczyk
• Jan Mandák	• Marek Dereń
• Markéta Šeligová	• Mateusz Trzeciak
• Mateusz Zaczyk	• Michał Wachowski

Category 1: Economics, Finance and Management

1 st	Grzegorz Krawczyk
2 nd	Markéta Šeligová
3 rd	Jan Mandák

Raw materials, Energy and the Environment	
• Agata Lorek	• Jiří Bednář
• Marcel Mikeska	• Mateusz Będkowski
• Michał Haida	• Pavel Mančík

Category 2: Raw materials, Energy and the Environment

1 st	Marcel Mikeska
2 nd	Michał Haida
3 rd	Mateusz Będkowski

Health and Applications in Healthcare	
• Jiří Prokop	
• Karolina Szymaniec-Mlicka	
• Michał Mikulski	

Category 3: Health and Applications in Healthcare

1 st	Jiří Prokop
2 nd	Michał Mikulski
3 rd	Karolina Szymaniec-Mlicka

Information Technology and Electrical Engineering	
• Aleksandra Sabo-Zielonka	
• Robert Malczyk	
• Tomáš Martinovič	

Category 4: Information Technology and Electrical Engineering

1 st	Tomáš Martinovič
2 nd	Aleksandra Sabo-Zielonka
3 rd	Robert Malczyk

Competitive Engineering and Materials Research	
• Anastasia Volodarskaja	• Denisa Závodská
• Angelika Wronkowicz-Katunin	• Maciej Sowa
• Ivana Petříková	• Lenka Pazourková
• Josef Hlinka	

Category 5: Competitive Engineering and Materials Research

1 st	Josef Hlinka Denisa Závodská
2 nd	--- Neuděleno / not awarded ---
3 rd	Maciej Sowa

Final results

- **Category: Economics and finance**

1st - Grzegorz Krawczyk - Impact of Public Procurement System on the Functioning of Transport Market in Poland

2nd - Markéta Šeligová - Funding sources in relation to the management of payment ability of companies in the Czech Republic

3rd - Jan Mandák - Proposal and implementation of churn prediction system for telecommunications company

- **Category: Raw materials, energy and the environment**

1st - Marcel Mikeska - Application of organically modified vermiculite for sorption of pollutants

2nd - Michał Haida - Numerical modelling of the R744 two-phase ejectors using homogeneous relaxation CFD and reduced-order approaches

3rd - Mateusz Będkowski - Mathematical modelling of coupled thermal and electromagnetic processes in an electric switchgear

- **Category: Health and applications in healthcare**

1st - Jiří Prokop - Measurement of Breast Tissue Stiffness – Examination Technique Increasing the Effectiveness of Secondary Prevention of Breast Cancer

2nd - Michał Mikulski - Electromyography-Based diagnostics and therapy of clinically weak patients

3rd - Karolina Szymaniec-Mlicka - The influence of strategic orientation of an organization on the effectiveness of its functioning on the example of public healthcare entities

- **Category: Information Technology and Electrical Engineering**

1st - Tomáš Martinovič - Tools for time series analysis of nonlinear dynamical systems

2nd - Aleksandra Sabo-Zielonka - Order-picking planning decision-making models in a modern warehouse

3rd - Robert Malczyk - Modeling of magnetic hysteresis for the needs of circuit simulation

- **Category: Competitive Engineering and Materials Research**

1st - Josef Hlinka - Testing and evaluation of corrosion resistance of selected metallic biomaterial and their surface treatment

& - Denisa Závodská - Fatigue properties of AlZn10Si8Mg alloy with different Fe content

2nd - Neuděleno / not awarded

3rd - Maciej Sowa - Study of surface modification process of zirconium, niobium and tantalum by highvoltage electrochemical oxidation