

# The Competition for the Best Dissertation Defended in 2015

## Final results Best 5 dissertations defended in 2015

### Economics and finance

- Aleksandra Nocoń
- Jana Šimáková
- Michal Titko
- Monika Šulganová
- Jacek Stelmach
- Marco Cassader
- Milan Zvarík
- Petra Lesníková

### Category: Economics and finance

1 <sup>st</sup>	Marco Cassader
2 <sup>nd</sup>	Jacek Stelmach
3 <sup>rd</sup>	Jana Šimáková Monika Šulganová

### Raw materials, energy and the environment

- Aleksandra Lipczyńska
- Karina Kocot
- Katarzyna Segeth-Boniecka
- Slavomíra Domčeková
- Vendula Laciok (née Drastichová)
- Joanna Orzel
- Silvie Hartmann

### Category: Raw materials, energy and the environment

1 <sup>st</sup>	Karina Kocot
2 <sup>nd</sup>	Slavomíra Domčeková
3 <sup>rd</sup>	Silvie Hartmann

### Health and applications in healthcare

- Anna Mielańczyk
- Jana Chromá
- Przemysław Makowski
- Iveta Jančigová
- Joanna Łaszczyk

### Category: Health and applications in healthcare

1 <sup>st</sup>	Anna Mielańczyk
2 <sup>nd</sup>	Iveta Jančigová
3 <sup>rd</sup>	Joanna Łaszczyk

### Information Technology

- Daniel Benedikovič
- Piotr Mynarek
- Václav Kocián
- Miroslav Kvaššay
- Radim Dolák

### Category: Information Technology

1 <sup>st</sup>	Daniel Benedikovič
2 <sup>nd</sup>	Miroslav Kvaššay
3 <sup>rd</sup>	Václav Kocián

### Competitive Engineering, Materials Research

- Andrea Soviarová
- Jan Holešinský
- Tomáš Hrabovský
- Agata Blacha-Grzechnik
- Anna Śmiglewicz
- Lukas Heisig

### Category: Competitive Engineering, Materials Research

1 <sup>st</sup>	Jan Holešinský
2 <sup>nd</sup>	Anna Śmiglewicz
3 <sup>rd</sup>	Tomáš Hrabovský

# Final results

- **Category: Economics and finance**

**1st - Marco Cassader** - Benchmark tracking portfolio problems with stochastic ordering constraints

**2nd - Jacek Stelmach** - The use of non-parametric statistical methods in economic and quality control of batch processes

**3rd - Jana Šimáková** – The effects of Exchange rates and their volatility on the foreign trade

**Monika Šulganová** – The macroeconomic modeling of an aggregate credit risk for the needs of macroprudential policy: application to the Czech Republic

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

**1st - Karina Kocot** - Microextraction in preconcentration and determination of trace metal ions by X-ray fluorescence techniques

**2nd - Slavomíra Domčeková** - Preparation and properties of modified polymer systems containing alternative fillers

**3rd - Silvie Hartmann** - Treatment of Solid Waste Incineration Fly ash for Mitigation of Environmental Risks

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

**1st - Anna Mielańczyk** - Research on synthesis of star-shaped copolymers with D-glucoopyranoside-centered core and their modification in order to conjugate fluorogenic compounds

**2nd - Iveta Jančigová** - Modeling elastic objects in fluid flow with biomedical applications

**3rd - Joanna Łaszczyk** - The analysis of a newborn's brain cooling proces

- **Category: Information Technology**

**1st - Daniel Benedikovič** - Subwavelength index engineered surface grating couplers for applications in silicon photonics telecom and datacom optical interconnects

**2nd - Miroslav Kvaššay** - Reliability Analysis based on Logical Differential Calculus and Minimal Cut Set Methods

**3rd - Václav Kocián** - Artificial Intelligence Algorithms for Classification and Pattern Recognition

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

**1st - Jan Holešinský** - Microstructural stability and heat resistance of steels for energy industry

**2nd - Anna Śmiglewicz** - Structure and properties of high-manganese steel formed in the result of mechanical twinning induced plasticity

**3rd - Tomáš Hrabovský** - Application of stress and magnetic oriented structure after machining for monitoring surface integrity via barkhausen noise technique

# Change in evaluation

Economics and finance	
•Aleksandra Nocoń	•Jacek Stelmach
•Jana Šimáková	•Marco Cassader
•Michal Titko	•Milan Zvarík
•Monika Šulganová	•Petra Lesníková

1st in category

Raw materials, energy, health and the environment	
•Aleksandra Lipczyńska	•Joanna Orzel
•Karina Kocot	•Silvie Hartmann
•Katarzyna Segeth-Boniecka	
•Slavomíra Domčeková	
•Vendula Laciok (née Drastichová)	

1st in category

Health and applications in healthcare	
•Anna Mielańczyk	•Iveta Jančígová
•Jana Chromá	•Joanna Łaszczyk
•Przemysław Makowski	

1st in category

Information Technology	
•Daniel Benedikovic	•Miroslav Kvaššay
•Piotr Mynarek	•Radim Dolák
•Václav Kocián	

1st in category

Competitive Engineering, Materials Research	
•Andrea Soviarová	•Anna Śmiglewicz
•Jan Holešínský	•Lukas Heisig
•Tomáš Hrabovský	
•Agata Blacha-Grzechnik	

1st in category

## Planned evaluation

Final Overall Results

Best 5 Dissertation Defended in 2015

1st Best	
2nd	
3rd	
4th	
5th	

1st place	15.000 CZK
2nd place	10.000 CZK
3rd place	5.000 CZK
4th place	3.000 CZK
5th place	1.000 CZK

## New evaluation based on the decision of the jury

### Final results

Best 5 dissertations defended in 2015

1st in category 1

1st in category 2

1st in category 3

1st in category 4

1st in category 5

1st in category 1	7.000 CZK
1st in category 2	7.000 CZK
1st in category 3	7.000 CZK
1st in category 4	7.000 CZK
1st in category 5	7.000 CZK