Jan Kuřátko

Education

The Czech Academy of Sciences, Institute of Computer Science

Ph.D. in Scientific and Technical Calculations **2012–**
Ph.D. Thesis: *Numerical Algorithms for Analysis of Hybrid Dynamical Systems*
Advisor: Stefan Ratschan

Faculty of Mathematics and Physics, Charles University

Diploma Degree in Numerical and Computational Mathematics **2012**
Diploma Thesis: *Analysis of Computing the Greatest Common Divisor of Polynomials*
Advisor: Jan Zítko

Bachelor in Mathematics **2009**
Bachelor Thesis: *Spline Interpolation*
Advisor: Karel Najzar

School of Mathematics and Statistics, The University of Sheffield **2010 – 2011**

Erasmus Programme
Project: *Rank of the Sylvester Matrix for two Bivariate Polynomials*
Project: *Factoring Bivariate Polynomials*
Advisor: Joab Winkler

Employment

The Czech Academy of Sciences, Institute of Computer Science **2012 – 2017**
Position: **Deputy-Head of Department**

Extracurricular Education

OMPC 2013 – SADCO Summer School and Workshop **2013**
Topic: Optimal and Model Predictive Control

Spring School on Variational Analysis **2009**
Topic: Variational Analysis and its Applications

Grants and Projects

GACR grant P202/15/14484S **2015 – 2017**
Student Member of the Project Team

GAUK grant 323015 **2015 – 2016**
Principal Investigator

GACR grant P202/12/J060 **2012 – 2014**
Student Member of the Project Team

Nečas Centre for Mathematical Modeling **2011**

Student Project: *Calculating the Rank of the Sylvester Matrix*
Advisor: Iveta Hnětynková

Articles in Refereed Proceedings

Jan Kuřátko and Stefan Ratschan
Combined Global and Local Search for the Falsification of Hybrid Systems

Lecture Notes in Computer Science (FORMATS 2014)
Vol 8711, 2014, pp. 146–160.

Jan Zítko and Jan Kuřátko
An Improvement of Euclid's Algorithm
Proceedings of the Programs and Algorithms of Numerical Mathematics 15
2010, pp. 251–260.

Professional Activities

Charles University in Prague Chapter of SIAM **2013 – 2016**
President (2015–2016), Secretary (2013–2015)

Prague SIAM SC Workshop **2014**
Organizer

Teaching

Systems Theory at the **Czech Technical University in Prague** **2013 – 2014**
Assignments in Autumn Semester

Languages

Czech: Native

English: Fluent

German: Basic

Skills

Optimization	*Very good*	**Optimal control**	*Very good*
MATLAB	*Very good*	**Scilab**	*Very good*
Python	*Good*	**SciPy & NumPy**	*Good*
Fortran	*Good*	**C**	*Normal*