



Andrej Mikulik

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Education

from 2010

Czech Technical University in Prague

Faculty of Electrical Engineering

Center for Machine Perception

PhD student under supervision of Prof. Jiri Matas

Supported by the Microsoft Research PhD Scholarship program

2004–2010

Charles University in Prague

Faculty of Mathematics and Physics

2007 graduated with honours - Bachelor of Computer Science

2010 graduated with honours - Master of Computer Science

Work experience

2009

Microsoft Research Cambridge

Cambridge Lab Internship Program

Implementation of high speed content based image search engine using image features and inverted file indexing under supervision of Dr. Andrew Fitzgibbon

2006–2009

Logio s. r. o.

Analyst and software developer,

working mainly on time series analysis, data extrapolation, promotional analysis and forecasting for demand planning, database and code performance optimization

2006–2010

University robotic team MART

Founder and team leader,

working mainly on computer vision, autonomous robot guidance system, representing faculty on competitions like Eurobot or Robotour

Relevant skills

Computer Vision, Machine Learning, Robotics

C/C++, C#, MySQL, MSSQL, Oracle RDBMS, Cassandra NoSQL DB, Node JS

Matlab, Wolfram Mathematica, GIT, SVN

Windows, Linux at the administration level

Mathematical background (statistics, analysis, econometrics)

Experience with

shell scripts, HTML5, JavaScript, CSS, PHP, Java, Python, Assembler, Prolog, Haskell

Publications

Mikulik A., Chum O., Matas J.

Image Retrieval for Online Browsing in Large Image Collections

In proceedings of Similarity Search and Applications 2013

Mikulik A., Perd'och M., Chum O., Matas J.

Learning Vocabularies over a Fine Quantization

International Journal of Computer Vision 2012

Chum O., Mikulik A., Perd'och M., Matas J.

Total Recall II: Query Expansion Revisited

In proceedings of Computer Vision and Pattern Recognition 2011

Mikulik A., Perd'och M., Chum O., Matas J.

Learning a Fine Vocabulary

In proceedings of European Conference on Computer Vision 2010

Mikulik A., Matas J., Perd'och M., Chum O.

Construction of Precise Local Affine Frames

In proceedings of the International Conference on Pattern Recognition 2010

Mach L., Mikulik A., Basovnik S., Obdržálek D.

Detecting Scene Elements Using Maximally Stable Colour Regions

In proceedings of the International Conference on Research and Education in Robotics 2009

Mikulik A., Obdržálek D., Petružek T., Basovnik S., Dekar M., Jusko P., Pechal R., Piták R.

Logion - A robot Which Collects Rocks

In proceedings of the International Conference on Research and Education in Robotics 2008

Languages

English (fluent), **German (basic)**, Slovak (mother tongue)

Interests

Education, programming, sports in general, classical music (I used to play the akordeon, the clarinet and the acoustic guitar)