Matúš Mihaľák - Curriculum Vitae

Personal data:

First name:	Matúš
Last name:	Mihaľák
Place of birth:	Prešov, Slovak Republic
Affiliation:	Department of Computer Science University of Leicester University Road, LE1 7RH, Leicester, Great Britain
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Education:

High school in Prešov, Slovakia, mathematical class (1993-1997)

Comenius University Bratislava, Slovakia (1997-2002)
- master degree in computer science (with honors)
- major: mathematical methods in computer science, computer graphics (both with state exams)

ETH Zürich, Switzerland (Oct 2002 - Mar 2003)
- pre-doc student of European Graduate Program "CGC-Combinatorics, Geometry and Computation", Institute of Theoretical Computer Science

ETH Zürich, Switzerland (Apr 2003 - Sep 2004)
- PhD student at prof. Thomas Erlebach's research group "Theory of Communication Networks", Computer Engineering and Networks Laboratory

University of Leicester, Great Britain (Oct 2004 - now)
- PhD student at Algorithms and Complexity Group (supervisor Dr. Thomas Erlebach)

Honors and Awards:
- final of national mathematical olympiad in programming in 1997 (Slovakia)
- awarded a purpose-scholarship to take part in Spring Conference on Computer Graphics in Budmerice 2001.
- awarded a prize Laureate of Student's Scientific Conference 2002 in section Applied Informatics for my Master's research

Other academic activities:
- co-author of national contest in programming for high school students (2000)
- teaching assistence: ACM Programming Contest Practice (WS 2002/2003, SS 2003, WS 2003/2004, ETH Zurich), Discrete Event Systems (WS 2003/2004, ETH Zurich), Online Algorithms (SS 2004, ETH Zurich), Logic and Discrete Structures (SS 2005, SS 2006, Uni. of Leicester), Program Design (WS 2005/2006, Uni. of Leicester), Algorithms and Data Structure (SS 2006, Uni. of Leicester), Multimedia and Computer Graphics (SS 2006, Uni. of Leicester)

Areas of interests:
- design and analysis of algorithms, approximation algorithms
- foundations of computer science (comp. complexity, formal languages, combinatorics, etc.)
- partially (out of my research) also cryptography, computational geometry, image processing, pattern recognition

Publications:

- T. Erlebach, A. Hall, M. Hoffmann and M. Mihal'ák: *Network Discovery and Verification with Distance Queries.* Proceedings of the 6th Conference on Algorithms and Complexity (CIAC), to appear.
- Z. Beerliova, F. Eberhard, T. Erlebach, A. Hall, M. Hoffmann, M. Mihal'ák and L. S. Ram: *Network Discovery and Verification.* Proceedings of the 31st International Workshop on Graph-Theoretic Concepts in Computer Science (WG), Springer LNCS (2005), 127-138. Springer-Verlag (2005).
- Thomas Erlebach, Riko Jacob, Matúš Mihal'ák, Marc Nunkesser, Gábor Szabó, Peter Widmayer: *Joint Base Station Scheduling.* Proceedings of the 2nd Workshop on Approximation and Online Algorithms (WAOA), Springer LNCS (2004), 225-238. Springer-Verlag (2004).
- Thomas Erlebach, Riko Jacob, Matúš Mihal'ák, Marc Nunkesser, Gábor Szabó, Peter Widmayer: *An Algorithmic View on OVSF Code Assignment.* Proceedings of the 21st Symposium on Theoretical Aspect of Computers Science (STACS), Springer LNCS (2004), 270-281. Springer-Verlag (2004).
- Ivan Kočiš, Matúš Mihal'ák: *Authentication of Paper Printed Documents using Paper Characteristics.* SPI'03 (Security and Protection of Information), Brno, Czech Republic.
- Thomas Erlebach, Riko Jacob, Matúš Mihal'ák, Marc Nunkesser, Gábor Szabó and Peter Widmayer: *Joint Base Station Scheduling.* Technical Report 462, Institute of Theoretical Computer Science, ETH Zürich, December 2004. Available online at ftp://ftp.inf.ethz.ch/pub/publications/tech-reports/4xx/462.ps.
- Thomas Erlebach, Riko Jacob, Matúš Mihal'ák, Marc Nunkesser, Gábor Szabó, Peter Widmayer: *An Algorithmic View on OVSF Code Assignment.* TIK-report Nr. 173, August 2003. Available online at ftp://ftp.tik.ee.ethz.ch/pub/publications/TIK-Report173.pdf.

Professional experience

- April 2000 - May 2002 (part time): Infotrans, Ltd., Taureus, Ltd. and InfoTrust, Ltd. (www.infotrans.sk, www.taureus.sk, www.infotrust.sk)
  - research in the area of authentication of paper printed documents
  - robust feature extraction from grey-scale images of paper for reference comparison (Master's Thesis)