
Michal Vondra

Postdoc researcher

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Work experiences

Since 2014 **Czech Technical University in Prague, FEE, Dept. of Telecommunication Engineering**
Researcher

Education

2010 – 2015 **Czech Technical University in Prague, Faculty of Electrical Engineering**
Ph.D. in Electronic engineering
Thesis: Allocation of Resources in Network with Small Cells
Dean's Award for the Dissertation thesis

2008 – 2010 **Czech Technical University in Prague, Faculty of Electrical Engineering**
M.Sc. in Telecommunications
Thesis: Assessment of speech quality in IP network
Graduated summa cum laude

2005 – 2008 **Czech Technical University in Prague, Faculty of Electrical Engineering**
B.Sc. in Telecommunications
Thesis: Analysis of links in the infrared spectrum

Internship

01 – 06/2014 **University College Dublin, Ireland, Performance Engineering Lab**
Visiting researcher

Research interests

Mobility management in mobile networks, small cells, femto cells, neighbor cell list, cloud edge computing, intelligent transportation system, vehicular ad-hoc networks, 5G networks.

Academic activities

Lab practice in Mobile Communication Networks and Telecommunication systems.
Training courses in Wireless Communication (Wi-Fi, WiMAX).
Supervisor of MSc student and internship supervisor.

Miscellaneous

Member of IEEE Communications Society.
Member of Program Committee of ISNCC.
Reviewer for several international conferences.
Researcher in several national research projects and leader of several projects focused on education.

Publication activities

Fourteen papers published in journals and at international conferences.
Two published book chapters.

- [1] M. Vondra, Z. Becvar, "Distance-based Neighborhood Scanning for Handover Purposes in Network with Small Cells," IEEE Transactions on Vehicular Technology, 2015.
- [2] Z. Becvar, P. Mach, M. Vondra, "Self-optimizing Neighbor Cell List with Dynamic Threshold for Handover Purposes in Networks with Small Cells," Wireless Communications and Mobile Computing, 2013.

- [3] M. Vondra, Z. Becvar, "Self-configured Neighbor Cell List of Macro Cells in Network with Small Cells," In IEEE International Symposium on Personal, Indoor and Mobile Radio Communications PIMRC 2013. London, UK, Sep. 2013.
- [4] M. Vondra, S. Djahel, J. Murphy, "VANETs based Route Selection with QoS Guarantees in Smart Cities," International Conference on Wireless Days WD 2014, Rio de Janeiro, Nov. 2014
- [5] M. Vondra, Z. Becvar, "Considering Algorithm for Small Cell Cloud," In IEEE International Conference on Cloud Networking CloudNet 2014, Luxemburg, Luxemburg, Oct. 2014.

Major research projects

- 09/2012 – 02/2015 **Project TROPIC** (www.ict-tropic.eu)
FP7 project (No. ICT-318784) founded by European Commission
- 01/2010 – 12/2011 **Project FREEDOM** (www.ict-freedom.eu)
FP7 project (No. ICT-248891) founded by European Commission

Language skills

Czech	Native
English	Advanced
German	Advanced