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# Jan Plachý

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## Ph.D. Student

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## Work experiences

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2011 - 2015      **GANT Czech Republic s.r.o.**  
IT technician

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## Education

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2014 - 2018      **Czech Technical University in Prague, Faculty of Electrical Engineering**  
Ph.D. in Telecommunications  
Thesis: Allocation of Communication and Computation Resources for Big data in Mobile Networks

2012 - 2014      **Czech Technical University in Prague, Faculty of Electrical Engineering**  
M.Sc. in Telecommunications  
Thesis: Path Selection for Delivery of Data from a User to Femto-cloud  
**Dean's award for outstanding thesis**

2009 - 2012      **Czech Technical University in Prague, Faculty of Electrical Engineering**  
Bc. in Telecommunications  
Thesis: Hybrid access in femtocells

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## Internship

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09/2017 - 10/2017      **Bar-Ilan University, Signal Processing, Information networks, Radio communications and Astronomy Lab**, Tel Aviv, Israel

06/2016 - 07/2016      **EURECOM, Communication systems**, Sophia Antipolis, France

12/2014 - 02/2015      **CEA-Leti, Wireless Telecommunications Lab**, Grenoble, France

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## Research interests

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Radio resource management in mobile networks, Mobile Edge Computing, femtocells, 5G, Mobile network emulation.

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## Academic activities

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Labs in Mobile Communication Networks.  
Supervisor of four BSc students.

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## Publication activities

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- [1] Z. Becvar, M. Vondra, P. Mach, J. Plachy, D. Gesbert, "Performance of Mobile Networks with UAVs: Can Flying Base Stations Substitute Ultra-Dense Small Cells?", *European Wireless (EW 2017)*, pp. 1-6, May 2017. BEST PAPER AWARD
- [2] J. Plachy, Z. Becvar, P. Mach, "Path selection enabling user mobility and efficient distribution of data for computation at the edge of mobile network", *Computer Networks*, Volume 108, 24 October 2016, Pages 357-370, ISSN 1389-1286
- [3] J. Plachy, Z. Becvar, E. Calvanese Strinati, "Dynamic Resource Allocation Exploiting Mobility Prediction in Mobile Edge Computing", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC 2016)*, pp. 1-6, 2016.
- [4] J. Plachy, Z. Becvar, E. Calvanese Strinati, "Cross-layer approach enabling communication of high number of devices in 5G mobile networks", *IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (IEEE WiMOB 2015)*, Abu Dhabi, SAE, October 2015.

- [5] Z. Becvar, J. Plachy, P. Mach, " Path selection algorithm in mobile networks with cloud-enabled small cells," *IEEE 25<sup>th</sup> International Symposium on Personal, Indoor, and Mobile Radio Communications (PIMRC 2014)*, Washington D.C., USA, August 2014.
- [6] Z. Becvar, J. Plachy, "Radio Resource Sharing Among Users in Hybrid Access Femtocells", *KIIS Transactions on Internet and Information Systems*, Vol. 8 Issue 8, August 2014.

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## Research projects

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- 07/2016 – 06/2018    **Game theoretic aspects of wireless spectrum access**  
Bilateral project (No. 8G15008) with prof. Amir Leshem, Bar-Ilan University, funded by The Ministry of Education, Youth and Sports
- 09/2012 – 04/2015    **Project TROPIC** ([www.ict-tropic.eu](http://www.ict-tropic.eu))  
FP7 project (No. ICT-318784) funded by European Commission  
main role: design of path selection for distributed computing

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## Language skills

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Czech	Native
English	Fluent