Europass Curriculum Vitae

Personal information

First name / Surname	**Miroslav Vozňák**
Address	Faculty of Electrical Engineering and Computer Science VSB–Technical University of Ostrava 17. listopadu 15, 708 33 Ostrava, Czech Republic
Telephone, E-mail , web	+420 603 565 965, voznak@ieee.org , http://voznak.eu
Year of birth, Gender	1971, Male
Position	Associate Professor, since 2013 – Department Chair

Education and training

Dates	1995
Title of qualification awarded	MSc. (Ing.)
Principal subjects covered	Electronics and Telecommunications **Thesis**: Source of emission for optical communications
Name of organisation providing education	Faculty of electrical Engineering and Computer Science VSB-Technical University of Ostrava, Czech Republic
Dates	2002
Title of qualification awarded	Ph.D.
Principal subjects covered	Telecommunications **Dissertation**: Voice traffic optimization with regard to speech quality in network with VoIP technology
Name of organisation providing education	Faculty of electrical Engineering and Computer Science VSB-Technical University of Ostrava, Czech Republic
Dates	2009
Title of qualification awarded	assoc. prof. (Doc.)
Principal subjects covered	Information and Communication Technology **Habilitation** Thesis: Impact of security on speech quality
Name of organisation providing education	Faculty of electrical Engineering and Computer Science VSB-Technical University of Ostrava, Czech Republic

Personal skills, competences

Mother tongue(s): **Czech**

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Independent	C1	Proficient User	C1	Proficient User	B2	Independent	B2	Independent
German	A2	Basic User	B1	Independent User	A2	Basic User	A2	Basic User	A2	Basic User

Organisational skills: 2009 - 2013 Vice-Chair of Department of Telecommunications,
Since 2013 Department chair, Department of Telecommunications

Technical skills and competences: Research in field of Information and Communication Technologies focusing on Next Generation Networks, IP telephony, Wireless Networks, Speech quality, Network security, Internet of Things and knowledge datamining in mobile networks.

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Social skills and competences

- Member of **Scientific council** at FEECS VSB-Technical University of Ostrava,
- Member of **doctoral branch committees** "Telecommunication Technology" at Czech Technical University in Prague, "Telecommunications" at University of Zilina and " Computer Science, Communication Technology and Applied Mathematics" at VSB-Technical University of Ostrava,
- IEEE Senior member of Communications Chapter and BigData Community,
- Member of SCS "The Society for Modeling & Simulation International"

Scientific board member of the **Journals:**

- Mobile, Embedded and Distributed Systems (Bucharest, RO),
- Advances in Electrical and Electronic Engineering" (Ostrava, CZ),
- Elektrorevue (Brno, CZ),
- Communications (Ankara, TR),
- Journal of Communications (Alabama, US),
- Journal of Advanced Engineering and Computation (Ho Chi Minh City, VN),
- guest-editor of special issues in "Wireless Personal Communications" (Springer, US), etc…

- member of many **conference committees** such as in 2016: SPECTS2016 - Montreal(CA), ELECTRONICS2016 - Palanga(LT), CN2016 - Brúnow(PL), ICAMER2016 - Ho Chi Minh City(VN), TSP2016 - Vienna(AT), ICCMIT2016 - Rende(IT), ICGEC2016 - Fuzhou(CN), ICNIT2016 - Warsaw(PL) ...

Projects

Involved in more than **15 research intents, projects or grants** such as (in last five years):

- member of INDECT team, Intelligent information system supporting observation, searching and detection for security of citizens in urban environment. The **7FP EU** (2009-2014) under Grant Agreement No. 218086, AGH Cracow.
- member of task force no. 4 in Activity 3 of the GN3 project. Multi-Gigabit European Research and Education Network and Associated Services (GN3), The **7FP EU** (2009-2013) under Grant Agreement No. 238875, conducted by GÉANT.
- member of Research Programme No. 5, IT4Innovations, Supercompouting centre, Czech National **Centre of Excellence**, Ostrava, 2011-2015.
- "Security of mobile devices and communication", **Technology Agency** of the Czech Republic, under grant TF01000091 (2015-2017).
- "Specific method of check-in and number of passengers", **Technology Agency** of the Czech Republic, under grant TB0500MD011 (2016).
- "Limits of data from mobile sites in statistical surveys of Czech statistical office", **Technology Agency** of the Czech Republic, under grant TD03000452 (2016-2017).
- member of activity Multimedia transmissions and collaborative environment in CESNET Prague, Research intent "Optical National Research Network and its New Applications,2004-2010,", etc.

degrees and awards

2008 - **achievement rector's award** for contribution to cooperation with industry, from rector of VSB – Technical University of Ostrava
2009-2016 supervised theses of **nine students who obtained dean's or rector's appreciation**
2015 – **The best paper award**, IEEE Conference on Computer Networks, http://cn.polsl.pl/2015/
2016 – **The best paper award**, IEEE Symposium on Performance Evaluation of Computer and Telecommunication Systems, Montréal, http://atc.udg.edu/SPECTS2016/
2016 – **Overall Best Paper Runner Up Award**, 2016 Summer Simulation Multiconference, Montréal, http://scs.org/summersim/
2016 - Elevation to the **grade of IEEE Senior member**

Publications

- Author or co-author more than **300 results** indexed in Czech national database of Research, Development and Innovations (IS VaVaI), **single author more than 70 of them** and three college books, source: http://www.isvav.cz/ (2016).
- Author or co-author **more than 165 papers** (70 in journals) indexed in **SciVerse SCOPUS** with more than 380 citations and scholar **h-index = 11**, source: www.scopus.com (2016).
- Author or co-author more than **80 papers** indexed in ISI/WoK(**18 articles in SCIE journals**) with more than 70 citations and h-index = 4 , source: http://webofknowledge.com (2016)
- H-index = 15 in Google Scholar > **850 citations**, source: https://scholar.google.com (2016)

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Ten selected articles in SCIE journals in last five years

P. Fazio, M. Tropea, F. De Rango, M. Voznak, ***Pattern Prediction and Passive Bandwidth Management for Hand-Over Optimization in QoS Cellular Networks with Vehicular Mobility***, IEEE Transactions on Mobile Computing, Vol 15, Issue 11, 2016, DOI: 10.1109/TMC.2016.2516996, 5-year **IF 3.145** (2015).

J.C.-W. Lin, Q. Liu, P. Fournier-Viger, T. Hong, M. Voznak, J. Zhane, ***A sanitization approach for hiding sensitive itemsets based on particle swarm optimization***, Engineering Applications of Artificial Intelligence, Volume 53, 2016, pp. 1–18. DOI: 10.1016/j.engappai.2016.03.007, 5-year **IF 2.604** (2015).

S. Jakovlev, M. Voznak, A. Andziulis, K. Ruibys, ***Application of predictive control methods for Radio telescope disk rotation control***, Soft Computing, Vol. 18, Issue 4, 2014, pp. 707-716. DOI 10.1007/s00500-013-1168-6, 5-year **IF 1.635** (2014).

J. Frnda, M. Voznak, L. Sevcik, ***Impact of packet loss and delay variation on the quality of real-time video streaming***, Telecommunication Systems, Vol. 62, No. 2, 2016, pp. 265-275. DOI 10.1007/s11235-015-0037-2, 5-year **IF 1.323** (2015).

M. Voznak, J. Slachta, L. Macura, K. Tomala, ***Advanced solution of SIP communication server with a new approach to management***, Telecommunication Systems, Vol. 59, Issue 4, 2015, pp. 541-549. DOI 10.1007/s11235-014-9914-3, 5-year **IF 1.323** (2015).

M. Voznak, J. Rozhon, ***Approach to stress tests in SIP environment based on marginal analysis***, Telecommunication Systems, Vol. 52, Issue 3, 2013, pp. 1583-1593. DOI 10.1007/s11235-011-9525-1, 5-year **IF 1.201** (2013).

F. Rezac, M. Voznak, K. Tomala, ***Voice Messaging System as a Form of Distribution of an Urgent Information***, Wireless Personal Communications, Vol. 85, Issue 1, 2015, pp. 63-67. DOI 10.1007/s11277-015-2728-0, 5-year **IF 0.669** (2015).

M. Kurmis, A. Andziulis, D. Dzemydiene, S. Jakovlev, M. Voznak, G. Gricius, ***Cooperative Context Data Acquisition and Dissemination for Situation Identification in Vehicular Communication Networks***, Wireless Personal Communications, Vol. 85, Issue 1, 2015, pp. 49-62. DOI 10.1007/s11277-015-2727-1, 5-year **IF 0.669** (2015).

D. Komosny, M. Voznak, S. Bezzateev, K. Ganeshan, ***The Use of European Internet Communication Properties for IP Geolocation,*** Information Technology and Control, Vol. 45, No. 1, 2016, pp. 77-85. DOI: 10.5755/j01.itc.45.1.11062, 5-year **IF 0.531** (2015).

M. Mehic, M. Niemiec, M. Voznak, ***Calculation of the key length for quantum key distribution***, Elektronika ir Elektrotechnika, Vol. 21, No. 6, 2015, pp.81-85. DOI 10.5755/j01.eee.21.6.13768, 5-year **IF 0.305** (2014).

Reference

Name, position, company and contact — Prof. Ing. Ivo Vondrák, CSc., rector, VSB-Technical University of Ostrava, ivo.vondrak@vsb.cz , +420 596 995 279

Name, position, company and contact — Doc. Ing. Karol Molnár, Ph.D., senior researcher, Honeywell International, karol.molnar@honeywell.com , +420 532 115 508

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