

Profesijný životopis

Meno a priezvisko, rodné priezvisko, titul	Juraj Gazda, Ing., PhD.
Dátum a miesto narodenia	1984, Košice, Československo
Vysokoškolské vzdelanie a ďalší akademický rast	Vysokoškolské vzdelanie druhého stupňa (Ing.): 2002-2007, Fakulta elektrotechniky a informatiky Technickej univerzity v Košiciach, študijný program: <i>Elektronika a telekomunikačná technika</i> . Vysokoškolské vzdelanie tretieho stupňa (PhD.): 2007-2010, Fakulta Elektrotechniky a informatiky Technickej univerzity v Košiciach, študijný odbor: <i>Elektronika</i> , študijný program: <i>Infoelektronika</i>
Ďalšie vzdelávanie	
Priebeh zamestnaní	15.2.2011 – 31.5.2012: vedecko-výskumný pracovník na Katedre elektroniky a multimediálnych telekomunikácií 1. 6. 2012 – 31. 5. 2015: vysokoškolský učiteľ vo funkcii odborný asistent v študijnom odbore <i>Multimediálne telekomunikácie</i> . 1. 6. 2015: vysokoškolský učiteľ vo funkcii odborný asistent v študijnom odbore <i>Informatika</i>
Priebeh pedagogickej činnosti (pracovisko/predmety)	Pracovisko: Katedra elektroniky a multimediálnych telekomunikácií FEI TUKE Predmety: Predchádzajúca pedagogická činnosť: <i>Prenosové systémy s rozprestretým spektrom</i> : 2012/2013, 2013/2014, 2014/2015 <i>Sieťové technológie</i> : 2012/2013 <i>Modelovanie prenosových kanálov</i> : 2012/2013, 2013/2014 <i>Teória obvodov</i> : 2012/2013, 2013/2014, 2014/2015 <i>Základy elektroniky</i> : 2012/2013, 2013/2014, <i>Projektový manažment</i> : 2012/2013, 2013/2014, 2014/2015 Aktuálna pedagogická činnosť: Katedra počítačov a informatiky FEI TUKE <i>Základy algoritmizácie a programovania</i> : 2015/2016 <i>Programovanie</i> : 2015/2016
Odborné alebo umelecké zamerania	1. Agentovo-orientované modelovanie kognitívnych sietí. 2. Počítačové systémy pre podporu rozhodovania v medicínskej technike
Publikačná činnosť vrátane rozsahu (autorské hárky) a kategórie evidencie (napr. AAB, podľa vyhlášky MŠVVaŠ SR č. 456/2012 Z.z)	1. Monografia: <i>Multicarrier systems undergoing nonlinear amplification OFDM, SC-FDMA and MIMO</i> / Juraj Gazda - Saarbrücken : Verlag, LAP

<ol style="list-style-type: none"> 1. monografia 2. učebnica 3. skriptá 	<p>LAMBERT - 2010. - 127 p. - ISBN 978-3-8433-8313-4.</p> <p>3. Skriptá: <i>Prenosové systémy s rozprestretým spektrom</i> / Dušan Kocur, Juraj Gazda - 1. vyd - Košice : Technická univerzita - 2015. - 301 s. - ISBN 978-80-553-2265-0.</p>
<p>Ohlasy na vedeckú – umeleckú prácu</p>	<p><i>Receiver technique for iterative estimation and cancellation of nonlinear distortion in MIMO SFBC-OFDM Systems</i> / Peter Drotár, Juraj GAZDA, Dušan KOCUR, Pavol GALAJDA - 2010. In: <i>IEEE Transactions on Consumer Electronics</i>. Vol. 56, no. 2 (2010), p. 471-475. - ISSN 0098-3063</p> <p>Ohlasy: 2011 [1] GREGORIO, F. H., WERNER, S., COUSSEAU, J. E. Receiver-side nonlinearities mitigation using an extended iterative decision-based technique In: <i>Signal Processing</i> Vol. 91, no. 8 (2011), p. 2042-2056 ISSN: 0165-1684</p> <p>2012 [1] PARK, H.J, BAEK, M. S. , SONG, H. K. Efficient signal detection technique for interactive digital broadcasting system with multiple antennas In: <i>IEEE Transactions on Consumer Electronics</i> Vol. 58, no. 2 (2012), p. 293-301 ISSN: 0098-3063</p> <p>2014 [1] DAKHLI, M.C. et al. Theoretical analysis and compensation for the joint effects of HPA nonlinearity and RF crosstalk in VBLAST MIMO-OFDM systems over Rayleigh fading channel In: <i>Eurasip Journal on Wireless Communications and Networking</i> Vol. 2014 (2014) ISSN: 1687-1499</p> <p>2014 [1] LEI, Y., O'DROMA, M., YE, J. A practical analysis of performance optimization in OSTBC based nonlinear MIMO-OFDM systems In: <i>IEEE Transactions on Communications</i> Vol. 62, no. 3 (2014), p. 930-938 ISSN: 0090-6778</p> <p>2014 [1] LIGATA, Amir, GACANIN, Haris, JAVORNIK, Tomaž On performance of MIMO-OFDM/TDM using MMSE-FDE with nonlinear HPA in a multipath fading channel In: <i>IEICE Transactions on Communications</i> Vol. E97-B, no. 9 (2014), p. 1947-1957 ISSN: 0916-8516</p> <p>2015 [1] SAHA, S., CHAKRABARTI, S., PATHAK, S.S. TSK type self-organising online fuzzy equalisation to mitigate nonlinear power amplifier distortions in OFDM systems In: <i>International Journal of Autonomous and Adaptive Communications Systems</i> Vol. 8, no. 1 (2015), p. 23-41 ISSN: 1754-8632</p> <p>2014 [1] PATIL, G.R., KOKATE, V.K. Joint channel estimation and data detection for SFBC MIMO OFDM wireless communication system In: <i>Proceedings of the 2014 International Conference on Advances in Computing,</i></p>

Communications and Informatics : 3rd International Conference on Advances in Computing, Communications and Informatics : Delhi, India P. 2565-2569 ISBN: 978-147993079-1 2014 [1] BELKACEM, O.B. et al. Closed BER of STBC-MIMO-OFDM systems over nonlinear frequency selective channel and cancellation technique for HPA distortion In: International Conference on Multimedia Computing and Systems : Proceedings : ICMCS 2014 : Marrakech; Morocco P. 1328-1332 ISBN: 978-1-4799-3823-0

Comparative evaluation of OFDMA and SC-FDMA based transmission systems / Juraj Gazda ... [et al.] - 2010. - 1 elektronický optický disk (CD-ROM). In: SAMI 2010 : 8th International Symposium on Applied Machine Intelligence and Informatics : January 28-30, 2010, Herľany, Slovakia. - [s.l.] : IEEE, 2010 S. 177-181. - ISBN 978-1-4244-6423-4:

Ohlasy: 2010 [1] ZHOU, K., ZHANG, J., XIAO, L. A research on improving the performance of OFDMA system by using DCT / IFFT structure In: 2nd International Conference on Information Science and Engineering, ICISE2010 - Proceedings : Hangzhou : 4.-6. december 2010 P. 1766-1769 ISBN: 978-142448096-8 2010 [3] GRAMMENOS , Ryan - DARWAZEH, Izzat SC-FDMA and OFDMA: The two competing technologies for LTE In: ISBC : 4th International Symposium on Broadband Communications : Melaka, July 11, 2010 P. 1-3 2012 [1] DALAKAS, V., et al. A comparative study between SC-FDMA and OFDMA schemes for satellite uplinks In: IEEE Transactions on Broadcasting Vol. 58, no. 3 (2012), p. 370-378 ISSN: 0018-9316 2013 [1] ZAIN, A.S. M. et al. Developing wireless network design in 4G long term evolution for healthcare (Book Chapter) In: Handbook of Research on ICTs and Management Systems for Improving Efficiency in Healthcare and Social Care P. 503-517 ISBN: 978-146663990-4 2013 [1] NISHIMURA, K., TAKEBUCHI, S., MAEHARA, F. Theoretical derivation of bit error rate for uplink OFDMA over nonlinear fading channels In: IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC : 8-11 September 2013, London P. 761-765 ISBN: 978-146736235-1 2012 [1] ZAIN, A.S.Md. et al. 3GPP long term evolution and its application for

healthcare services In: ICCCE 2012 : International Conference on Computer and Communication Engineering : Kuala Lumpur, July 3-5, 2012 P. 239-243 ISBN: 978-146730478-8 2014 [1] NISHIMURA, K., TAKEBUCHI, S., MAEHARA, F. Theoretical derivation of bit error rate for uplink OFDMA employing space diversity reception over nonlinear fading channels In: 20th European Wireless Conference : EW 2014 : Barcelona, Spain P. 366-371 ISBN: 978-380073621-8

Receiver based compensation of nonlinear distortion in MIMO-OFDM / Peter Drotár, Gazda Juraj ... [et al.] - 2010. - 1 elektronický optický disk (CD-ROM). In: RF Front-ends for Software Defined and Cog

nitive Radio Solutions : IEEE International Microwave Workshop Series : Aveiro, Portugal, February 22-23, 2010. - Aveiro : IEEE, 2010 P. 1-4. - ISBN 978-1-4244-5752-6

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2014 [1] DAKHLI, M.C. et al. Theoretical analysis and compensation for the joint effects of HPA nonlinearity and RF crosstalk in VBLAST MIMO-OFDM systems over Rayleigh fading channel In: Eurasip Journal on Wireless Communications and Networking ISSN: 1687-1499 2014 [1] HEMESI, H., ABDIPOUR, A., MOHAMMADI, A. Statistical modelling of a non-linear high-power amplifier with memory in multi-input-multi-output orthogonal frequency division multiplexing systems In: IET Communications Vol. 8, no. 5 (2014), p. 714-721 ISSN: 1751-8628

2013 [1] HEMESI, H., ABDIPOUR, A., MOHAMMADI, A. Analytical modeling of MIMO-OFDM system in the presence of nonlinear power amplifier with memory In: IEEE Transactions on Communications Vol. 61, no. 1 (2013), p. 155-163 ISSN: 0090-6778 2013 [1]

CHERIF DAKHLI, M., ZAYANI, R., BOUALLEGUE, R. A theoretical characterization and compensation of nonlinear distortion effects and performance analysis using polynomial model in MIMO OFDM systems under Rayleigh fading channel In: Proceedings - International Symposium on Computers and Communications P. 583-587 ISSN: 1530-1346 ISBN: 978-147993755-4 2014 [1] LIGATA, Amir, GACANIN, Haris, JAVORNIK, Tomaž On performance of MIMO-OFDM/TDM using MMSE-FDE with nonlinear HPA in a

	multipath fading channel In: IEICE Transactions on Communications Vol. E97-B, no. 9 (2014), p. 1947-1957 ISSN: 0916-8516. Všetky ohlasy sú evidované v citačnej databáze Scopus.
Počet doktorandov: školených ukončených (neplatí pre habilitačné konanie)	0
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