

ИЗБОРНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Изборно веће Електротехничког факултета Универзитета у Београду, на својој 913. седници од 08.07.2025. године (одлука бр. 1177/5 од 08.07.2025.), именовало нас је за чланове Комисије за избор др Ђурађ Будимира, редовног професора Универзитета *Westminster* у Лондону, Велика Британија (*Wireless Communications Research Group, Faculty of Science and Technology*), у звање гостујућег професора. Након увида у достављену документацију подносимо следећи

ИЗВЕШТАЈ

РЕПУБЛИКА СРБИЈА
УНИВЕРЗИТЕТ У БЕОГРАДУ
ЕЛЕКТРОТЕХНИЧКИ ФАКУЛТЕТ

Број 11-08-2025 1177/5-1
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А. БИОГРАФСКИ И АКАДЕМСКИ ПОДАЦИ О КАНДИДАТУ

Ђурађ Будимир је рођен 10.10.1957. године у Грачацу, Лика, Бивша Југославија. Јуна 1981. године успешно завршава основне студије на Електротехничком факултету Универзитета у Београду, на профилу Електроника и телекомуникације. Војни рок одслужио је у периоду 1983-1984. Последипломске студије на Електротехничком факултету у Београду, смер Телекомуникације, завршио је у мају 1985. године. Од завршетка основних студија до 1989. ради у неколико српских компанија: Електронска Индустрија (ЕИ), Војно Технички Институт (ВТИ) и Институт за Микроталасну Технику и Електронику (ИМТЕЛ). У септембру 1989. године одлази у Уједињено Краљевство на Електротехнички факултет, Универзитета у *Leeds*-у где ради као гостујући истраживач на развоју микроталасних филтара за примене у микроталасном радију под менторством проф. *John David Rhodes*-а. На истом факултету наставља да ради и докторат који успешно завршава 1995. Од марта 1994. године запослен је у својству *post-doc* истраживача у центру за телекомуникације, Електротехничког факултета, *King's College London, University of London*, где ради на два EPSRC истраживачка пројекта. Од јануара 1997. запослен је на Електротехничком факултету, *Westminster* Универзитета у Лондону као доцент (*lecturer*). У фебруару 2000. године унапређен је у звање ванредног професора (*senior lecturer*), а у јулу 2006. године у звање *Reader* (звање које је по рангу између ванредног и редовног професора Универзитета у Београду; ово звање је у Америци и Канади у рангу редовног професора), а у јулу 2024. у звање редовног професора у коме се и сада налази. Године 1998. оснива и руководи са истраживачком групом под називом *Wireless Communications Research Group (WCRG)* која има 5 стално запослених чланова (једног *Reader*-а, два ванредна професора и два доцента). Ђурађ Будимир је, самостално, значајно допринео осавремењивању Лабораторије за бежичне комуникације на Универзитету *Westminster* у Лондону, тако да она данас представља једну од боље опремљених универзитетских лабораторија из ове области. У протеклих 18 година у лабораторијску опрему је уложено преко £700.000. Ђурађ Будимир је радио и ради на развоју и реализацији треће, четврте, пете и шесте генерације мобилних радио система, уређаја за бежичне мреже (WLAN, WPAN, UWB), бежичних мрежа, IoT и FD комуникационих система. Према својим досадашњим резултатима спада у високо рангиране светске научнике из области развоја уређаја, подсистема и система за бежичне мреже. Ђ. Будимир има интезивну националну и интернационалну сарадњу, а посебно са следећим универзитетима: *University of Manchester, University of Loughborough, University of Essex, University College London, Imperial College London, University of Surrey, University of Sydney, University of Colorado at Boulder, The Georgia Institute of Technology, The University of Pavia*, Факултетом техничких наука у Новом Саду, Електронским факултетом у Нишу и Електротехничким факултетом у Београду. Од 2016. године ангажован је као гостујући професор на Електротехничком факултету Универзитета у Београду. EPSRC, EU, *The Royal Society, The Royal Academy of Engineering* и *The Nuffield Foundation* углавном финансијски подржавају/спонзоришу истраживачке активности *WCRG* групе.

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Web-WCRG: <https://www.westminster.ac.uk/research/groups-and-centres/wireless-communications-research-group>
You Tube: <http://www.youtube.com/watch?v=gTCSPTuO1Go>

Професионална каријера:

- Јул 2024 - до данас: Редовни професор, University of Westminster, London, UK;
- Јул 2006 – Јул 2024 Reader of Wireless Communications, University of Westminster, London, UK;
- Феб. 2000 – Јул 2006 Ванредни професор (Senior Lecturer), University of Westminster, London, UK;
- Јан. 1997 – Феб. 2000 Доцент (Lecturer), University of Westminster, London, UK.
- Јун 1996 - Јан. 1997 Инжењер истраживач (Research Engineer), Airtech Ltd., Aylesbury, Bucks. UK
- Март 1994 – Јун 1996 Post-doc fellow, King's College London, University of London, London, UK.

Б. ОБРАЗОВАЊЕ

- Септ. 1991- Нов. 1995 PhD - *Department of Electronic and Electrical Engineering, University of Leeds, UK.*
Thesis title: "Design of E-plane Bandpass Filters with Improved Stopband Performance".
- Окт. 1981- Мај 1985 MSc - смер Телекомуникације, Електротехнички факултет Универзитета у Београду.
Магистарска теза: „Пројектовање симетричних, реципрочних микроталасних М-приступних прилагођених спојева без губитака”.
- Окт. 1977- Јун 1981 Дипл. инж. - смер Телекомуникације, Електротехнички факултет Универзитета у Београду.
Дипломски рад: „Контролни 800 MHz микроталасни мобилни радио системи великог капацитета”

В. НАСТАВНА АКТИВНОСТ

В.1. Учешће у настави

Електротехнички факултет, Универзитета у Leeds-у, UK

Окт. 1989 - Феб. 1994:

Основне студије (MEng/BEng):

Year 1: Electromagnetism laboratory (teaching assistant)

Year 2: Communications (teaching assistant)

Year 2: Analog Electronics (teaching assistant)

Електротехнички факултет, King's College London, Универзитета у Londonu, UK

Март 1994 - Мај 1996:

Основне студије (MEng/BEng):

Year 2: RF Circuit Design (Team member)

Year 3: High Frequency and Microwaves (Team member)

Последипломске студије (MSc):*RF and Microwave Engineering (Team member)*

У току целог периода запослења на Електротехничком факултету, на Универзитету *Westminster* у Лондону, Ђ. Будимир је осмислио, изводио и тренутно изводи наставу из више предмета на основним редовним и последипломским студијама.

Основне студије:**1997- 2010**3ECE522: *Year2: Communications and Circuits (Module leader)*3TSE612: *Year3: RF and Microwave Systems (Module leader)***2010 - 2022**EEEL510: *Year2: Digital Communications (Module leader)*EEEL610/GELEN004W: *Year3: Wireless RF and Microwave Systems/ Communication Systems (Module leader)***2022 - до данас**4NTCM002W: *Year1: Introduction to Networks (Module leader)*6CSEF005W: *Year3: Wireless Networks Security (Module leader)*4COSC003W: *Trends in Computer Science (Internet of Things) (Module team member)***Последипломске студије (MSc):****1997 – 2010****MSc: Mobile, Personal & Satellite Communications**3MPC3A2 *Module: Terrestrial and Satellite Communication Systems (Team member)*3MPC7A3 *Module: RF&Microwave Circuits and Sub-Systems (Module leader)*3MPC7A6 *Module: Advanced CAD of RF, microwave & mm-wave circuits for Modern Digital Communication Systems (Module leader)***MSc: Broadband and High-Speed Data Communication Networks**MBIC2 *Module: Wireless Communication Networks (Module leader)***Окт. 2010 - 2022:****MSc: Mobile, Wireless and Broadband Communications and****MSc of Research in Electronics**EEMB705: *Broadband Wireless Networks (Module leader)*EEMB750: *Wireless System Design (Module leader)***B.2. Студентске анкете**

Од стране студената увек је добијао високе оцене.

B.3. Менторство и учешће у комисијама за оцену и одбрану радова

Др Ђурађ Будимир је више од 100 пута био члан комисија за одбрану дипломских радова на Електротехничком факултету Универзитета *Westminster* у Лондону.

Др Ђурађ Будимир је више од 100 пута био члан комисија за одбрану магистарских теза на Електротехничком факултету Универзитета *Westminster* у Лондону.

Др Ђурађ Будимир је више пута био члан комисија за одбрану докторских дисертација на Електротехничком факултету Универзитета *Westminster* у Лондону.

PhD Менторство

Др Ђурађ Будимир је био ментор за 24 успешно одбрањених докторских дисертација на Електротехничком факултету Универзитета *Westminster* у Лондону.

Др Ђурађ Будимир је тренутно ментор за 4 докторанта на Електротехничком факултету Универзитета *Westminster* у Лондону.

Др Ђурађ Будимир је био ментор за 3 гостујућа докторанта на Електротехничком факултету Универзитета *Westminster* у Лондону.

Др Ђурађ Будимир је био ментор за 2 *post-doc* истраживача на Електротехничком факултету Универзитета *Westminster* у Лондону.

Др Ђурађ Будимир је био ментор за 4 одбрањене магистарске тезе (*MSc by research*) на Електротехничком факултету Универзитета *Westminster* у Лондону.

Комисије за оцену и одбрану радова

Др Ђурађ Будимир је преко 40 пута био члан комисија за одбрану докторских дисертација на националним (UK) и интернационалним универзитетима.

Г. БИБЛИОГРАФИЈА НАУЧНИХ И СТРУЧНИХ РАДОВА

Проф. др Ђурађ Будимир је аутор преко 390 научних радова из области радио комуникационих система и подсистема објављених у:

- еминентним међународним часописима са "impact factorom"-ом (укупно 97),
- зборницима радова са конференција (укупно 299),
- објављених радова на конференцијама по позиву и предавања по позиву (укупно 20).

Поред тога, проф. Ђ. Будимир има објављене две књиге и развијена два комерцијална софтвера са пратећом документацијом. Цитираност радова Ђурађа Будимира без аутоцитата свих коаутора обухвата 3086 цитата (извор: *Google Scholar*, 27 July 2025. године.) Vrednost njegovog 'H' indeksa je 25 (*Google scholar*) (i10-index: 83).

Г.1. Библиографија научних и стручних радова

Г.1.1 Књиге и развијени софтвери са пропратном документацијом [2+2]

- [1] D. Budimir, "Waveguide Components", in the book "Encyclopaedia of RF and Microwave Engineering", Editor-in-Chief: Christopher Rodenbeck, ISBN: 9780471654506, John Wiley and Sons, 13 December 2024 (e-version).
- [2] D. Budimir, "Waveguide Components", in the book "Encyclopaedia of RF and Microwave Engineering", Edited by Kai Chang, Volume 6, ISBN: 0-471-27053-9, Wiley, February 2005.
- [3] D. Budimir, "EPFIL-Waveguide E-plane Filter Design", Software and User Manual, ISBN 1-58053-083-4, Artech House Books, October 1999.
- [4] D. Budimir, "Generalized Filter Design by Computer Optimization", ISBN 0-89006-579-9, Artech House Books, March 1998.
- [5] D. Budimir, "DBFILTER", Software and User Manual, London, England, 1997.

Г.1.2. Радови објављени у међународним часописима са SCI листе, категорија M20

Year 2024: [97]

- [97] Aleksandar Atanackovic, Aleksandra Djoric, Nataša Males Ilic, Biljana P. Stosic, and Djuradj Budimir, "Linearization of the Fifth Generation Power Amplifiers by Injection of the Second Order Digitally Processed Signals", *Radioengineering*, April 2024.

Year 2023: [96]

[96] Tamara Muškatirović-Zekić *, Nataša Nešković, Djuradj Budimir, "Efficient Neural Network DPD architecture for Hybrid Beamforming mMIMO", *Electronics-Communications*, 25 January 2023, 12, 597, <https://doi.org/10.3390/electronics12030597>.

Year 2022: [3]

[95] Mioljub Jovanovic, Milan Cabarkapa and Djuradj Budimir, "Network Service Assurance and Telemetry optimisation using Heuristics", *WSEAS Transactions on Communications*, Vol. 21, pp. 244-249, September 2022, DOI: 10.37394/23204.2022.21.29.

[94] Shakti S. Chauhan, Mahesh P. Abegaonkar, Ananjan Basu and Djuradj Budimir, "3D Printed Extended Lens as a Button Antenna for Off-Body Links at 60GHz, *Progress in Electromagnetics Research M*, Vol. 113, 47-58, 2022.

[93] Tamara Muškatirović-Zekić, Milan Čabarkapa, Nataša Nešković and Djuradj Budimir, "Compensation of nonlinear distortion in hybrid beamforming MIMO transmitters", *International Journal of Electrical Engineering and Computing*, June 2022.

Year 2019: [1]

[92] Andjelija ILIC, Branko Bukvić, Djuradj Budimir, Milan Ilić, Design methodology for graphene tunable filters at the sub-millimeter-wave frequencies, *Solid-State Electronics*, April 2019.

Year 2018: [4]

[91] Natasa Banovic-Curguz, Dijana Ilijasevic and Djuradj Budimir, Recent Research Activities on 5G Technology, *International Journal of Electrical Engineering and Computing*, Vol. 2., No.1, 2018.

[90] Oludotun Olukoya, Andjelija Ilic, Ananjan Basu and Djuradj Budimir, (2018), Miniaturized Quadrature Hybrid Couplers based on Novel U-shaped Transmission Lines, *Microwave and Optical Technology Letters*, pp: 1-4, October, 2018, Article DOI: 10.1002/mop.31555.

[89] M. Bozic, M. Cabarkapa, D. Barjamovic and D. Budimir, (2018), Waveform Comparison and PA Nonlinearity Effects on CP-OFDM and 5G FBMC Wireless Systems, *Microwave and Optical Technology Letters*, Vol. 60, No. 8, pp: 1952-1956, August 2018.

[88] Oludotun Olukoya and Djuradj Budimir, (2017), Highly Efficient Balanced Power Amplifiers for Carrier Aggregation, *Microwave and Optical Technology Letters*, Volume 60, Issue 3, pp. 529- 534, 05 February 2018.

Year 2017: [2]

[87] M. Vaskovic, V. S. Kodogiannis and D. Budimir, An Adaptive Fuzzy Logic System for the Compensation of Nonlinear Distortion in Wireless Power Amplifiers, *Neural Computing and Applications*, Springer, Vol. 28, No. 1, January 2017.

[86] Ahmed A. Ibrahim and Mahmoud A. Abdalla and D. Budimir, "Coupled CRLH Transmission Lines for Compact and High Selectivity Bandpass Filters", *Microwave and Optical Technology Letters*, Vol. 59, No. 6, Pages 1248–1251, June 2017.

Year 2016: [4]

[85] N. Mohottige, O. Glubokov, U. Jankovic and D. Budimir, "Ultra Compact Inline E-plane Waveguide Bandpass Filters Using Cross Coupling", *IEEE Transactions on Microwave Theory and Techniques*, Volume: 64, Issue: 8, pp: 2561 - 2571, August 2016. DOI: [10.1109/TMTT.2016.2578329](https://doi.org/10.1109/TMTT.2016.2578329)

[84] Andjelija Ilic, Branko Bukvić, Milan Ilić, and Djuradj Budimir, "Graphene based waveguide resonators for submillimeter-wave applications" *Journal of Physics D: Applied Physics*, Volume 49, Number 32, July 2016: JPhysD-108583, 2016.

[83] W. Ahmad, and D. Budimir, "Reconfigurable High-Linearity UWB Filters with Independently Controlled Dual Bandnotch". *Microwave and Optical Technology Letters*, Volume 58, Issue 11. pp. 2639–2643, November 2016, ISSN 0895-2477, 2016.

[82] W. Ahmad and D. Budimir, "Dual-band Filtenna Array for WLAN Applications", *Microwave and Optical Technology Letters*, Volume 58, Issue 2, Pages 477–481, February 2016,

2015: [5]

[81] N. Maletic, M. Cabarkapa, N. Neskovic and D. Budimir, 'The hardware impairments impact on fixed-gain AF relaying performance in Nakagami-m fading", *IET Electronics Letters*, DOI: [10.1049/el.2015.3378](https://doi.org/10.1049/el.2015.3378), Online ISSN 1350-911X Available online: 26 November 2015.

[80] B. Bukvic and D. Budimir, "Magnetically Biased Graphene Based Switches for Microwave Applications", *Microwave and Optical Technology Letters*, Vol 57, pp. 2956-2958 Issue 12, December 2015,

[79] B. Bukvic and D. Budimir, "Reconfigurable Matching Networks for RF Amplifiers", *Microwave and Optical Technology Letters*, Vol. 57, No. 6, pp. 1487 – 1491, June 2015

[33/78] M. Bozic and D. Budimir, "Joint Compensation of I/Q Impairments and PA Nonlinearity for Concurrent Dual-Band Transmitters using Two-Box Model", *IEEE Microwave and Wireless Components Letters*, Vol. 25, No. 5, pp. 340-343, May 2015.

[77] A. Anastasijevic, D. Coja, N. Neskovic, A. Neskovic and D. Budimir, "Joint Power Amplifiers and I/Q Modulator Impairments Modelling and Compensation for LTE Transmitters Using Artificial Neural Networks" *International Journal of Electronics and Communications (AEU)*, Issue 69, pp. 529-538. 2015.

2014: [5]

[76] Jelena Mišić, Vera Marković, Zlatica Marinković, Djuradj Budimir' The Application of Globally Recurrent Neural Networks for Modelling of LNAs for LTE Systems, *Microwave Review*, December 2014.

[75] Andjelija Ilic and D. Budimir, "Electromagnetic Analysis of Graphene Based Tunable Waveguide Resonators", *Microwave and Optical Technology Letters*, Volume 56, Issue 10, pages 2385–2388, October 2014.

[74] M. Vaskovic and D. Budimir, "Compensation of Nonlinear Distortion in RF power amplifiers for LTE applications", *Microwave and Optical Technology Letters*, Volume 56, Issue 8, pages 1910–1913, August 2014.

[73] K. Chakrabarty, K. Rabbi, C. J. Panagamuwa and V. Kodogiannis and D. Budimir, "Evaluation of Nonlinear Distortion in Optically Switchable UWB Filters", *Microwave and Optical Technology Letters*, Volume 56, Issue 5, pages 1092–1094, May 2014.

[72] K. Rabbi, and D. Budimir, "Highly Selective Reconfigurable Filter for UWB Systems", *IEEE Microwave and Wireless Components Letters*, Vol. 24, No. 3, pp. 146-148, March 2014.

2013: [5]

[71] M. Cabarkapa, N. Neskovic, and D. Budimir, "A Generalized 2-D Linearity Enhancement Architecture for Concurrent Dual-Band Wireless Transmitters", *IEEE Transaction on Microwave Theory and Techniques*, Volume 61, No. 12, pp. 4579 – 4590, December 2013.

[70] K. Rabbi, L. Athukorala, C. Panagamuwa, J. C. Vardaxoglou and D. Budimir, "Highly Linear Microstrip Wideband Bandpass Filter with Switchable Notched band for Wireless Applications", *Microwave and Optical Technology Letters*, Volume 55, Issue 6, pages 1331–1335, June 2013

[69] N. Mohottige, O. Glubokov and D. Budimir, "Ultra-Compact Inline Extracted Pole Waveguide Filters", *IEEE Microwave and Wireless Components Letters*, Volume:23, Issue: 8, pp. 409-411, August 2013.

[68] K. Rabbi, L. Athukorala C. Panagamuwa, J. C. Vardaxoglou and D. Budimir, Compact UWB Bandpass Filter with Reconfigurable Notched Band, *IET Electronics Letters*, Volume 49, Issue 11, p. 709 – 711, 23 May 2013.

[67] K. Rabbi, L. Athukorala and D. Budimir, "High Linearity Microstrip Bandpass Filter with Electronically Tunable Notch", *Microwave and Optical Technology Letters*, Volume 55, Issue 2, pages 418–421, February 2013.

2012: [6]

- [66] M. Cabarkapa, N. Neskovic, A. Neskovic and D. Budimir, "Adaptive nonlinearity compensation technique for 4G wireless transmitters", *IET Electronics Letters*, Volume 48, Issue 20, p.1308–1309, 27th September, 2012.
- [65] L. Athukorala, and D. Budimir, "Parallel-Coupled Open-Loop Tunable Resonators and Filters with Constant Bandwidth", *IET Microwaves, Antennas and Propagation*, Vol. 6, Issue: 7, pp. 800 - 806, 2012.
- [64] L. Athukorala, and D. Budimir, "Compact Filter Configurations Using Concentric Microstrip Open-Loop Resonators", *IEEE Microwave and Wireless Components Letters*, Vol. 22 , Issue: 5 , pp: 245 – 247, May 2012.
- [63] M. Borenović, A. Neskovic, and D. Budimir, "Multi-System-Multi-Operator Localization in PLMN Using Neural Networks", *International Journal of Communication Systems*, Volume 25, Issue 2, pp: 67–83, February 2012.
- [62] H. F. AbuTarboush, R. Nilavalan, S. W. Chueng, K. M. Nasr, T. Peter and D. Budimir, H. Al-Raweshidy, "A Reconfigurable Wideband and Multiband Antenna Using Dual-Patch Elements for Compact Wireless Devices", *IEEE Transaction on Antennas and Propagation*, Vol. 60, Issue 1, pp. 36-43, January 2012.
- [61] H. F. AbuTarboush, R. Nilavalan, S. W. Chueng, T. Peter and D. Budimir, "Reconfigurable Penta-Band PIFA for Small and Slim Mobile Handsets", *Microwave and Optical Technology Letters*, Vol. 53, No. 3, March 2012.

2011: [6]

- [60] O. Glubokov, and D. Budimir, "Extraction of Generalized Coupling Coefficients for Inline Extracted Pole Filters with Nonresonating Nodes", *IEEE Transaction on Microwave Theory and Techniques*, Vol 59, No. 12, pp. 3023-3029, December 2011.
- [59] H. F. Abutarboush, R. Nilavalan, S. W. Cheung, K. M. Nasr, T. Peter, H. Al-Raweshidy, D. Budimir, "Reconfigurable Tri-Band H-Shaped Antenna with Frequency Selectivity Feature for Compact Wireless Communication Systems", *IET Microwave Antennas and Propagation*, Volume: 5 Issue:14, pp. 1675 – 1682, 22 December 2011.
- [58] O. Glubokov, S. Nagandiram, A. Tarczynski and D. Budimir, "Folded Substrate Integrated Waveguide Cross-Coupled Filters with Negative Coupling Structure," *Microwave and Optical Technology Letters*, pp. 2521-2526, Vol. 53, No.11, November 2011.
- [57] L. Athukorala, and D. Budimir, "Compact Second-Order Highly Linear Varactor-Tuned Dual-Mode Filters with Constant Bandwidth", *IEEE Transaction on Microwave Theory and Techniques*, Vol 59, No. 9, pp. 2214-2220, September 2011.
- [56] M. Borenović, A. Neskovic, and D. Budimir, "Space Partitioning Strategies for Indoor WLAN Positioning with Cascade-Connected ANN Structures", *International Journal of Neural Systems*, pp. 1-15, Vol.21, No. 1, 2011.
- [55] D. Budimir, O. Glubokov and M. Potrebit, "Novel waveguide filters using T-shaped resonators", *IET Electronics Letters*, Volume 47, Issue 1, 6th January 2011.

2010: [4]

- [54] L. Athukorala and D. Budimir, "Design of Compact Dual-Mode Microstrip Filters", *IEEE Transaction on Microwave Theory and Techniques*, pp. 2888-2895, Vol 58, No. 11, November 2010.
- L. Athukorala, D. Budimir, and M. M. Potrebit, "Design of Open-Loop Dual-Mode Microstrip Filters", *Progress in Electromagnetics Research Letters*, Volume 19, page 179-185, 2010.
- H. F. AbuTarboush, R. Nilavalan, D. Budimir, and H. S. Al-Raweshidy, "Double U-Slots Patch Antenna for Tri-band Wireless Systems", *International Journal of RF and Microwave Computer-Aided Engineering*, Volume 20, Issue 3, pages 279–285, May 2010.
- L. Athukorala, and D. Budimir, "Miniatrized Bandpass Filters using Closed-loop Microstrip Ring Resonator with Parallel-Coupled Feed for Wireless Communications", *Microwave and Optical Technology Letters*, Volume 52, Issue 6, pages 1277–1280, June 2010.

2009: [5]

[50] L. Athukorala, and D. Budimir, "Compact Dual-Mode Open Loop Microstrip Resonators and Filters", *IEEE Microwave and Wireless Components Letters*, pp. 698-700, Vol. 19, No. 11, November 2009.

D. Draskovic, C. Panagamuwa, J. C. Vardaxoglou and D. Budimir, "Frequency Reconfigurable RF Circuits Using Photoconducting Switches", *International Journal of RF and Microwave Computer-Aided Engineering*, November 2009.

N. Suntheralingam and D. Budimir, " Enhanced Waveguide Bandpass Filters Using S-Ring Resonators", *International Journal of RF and Microwave Computer-Aided Engineering*, pp. 627 – 633, Vol. 19, No. 6, August 2009.

D. Bondar, and D. Budimir, "A Digital Predistorter for Wireless Transmitters", *International Journal of RF and Microwave Computer-Aided Engineering*, pp.453-459, Volume 19, No. 4, July 2009.

D. Draskovic, H. Koulouzis and D. Budimir, "A Reduced-Size Branch-Line Coupler for Improved LDMOS Balanced Power Amplifiers", *Microwave and Optical Technology Letters*, February 2009.

2008: [1]

[45] D. Zayniyev, D. Budimir and G. Zouganelis, "Miniaturised Microstrip Filters and Diplexers for Wireless Applications", *Microwave and Optical Technology Letters*, October 2008.

2007: [4]

[44] A. Shelkovnikov, and D. Budimir , "Miniaturised Rectangular Waveguide Filters", *International Journal of RF and Microwave Computer-Aided Engineering*, June 2007.

[43] N. Males-Ilic, B. Milovanovic and D. Budimir, " Effective Linearization Technique for Amplifiers Operating Close to Saturation", *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 17, No. 2, March 2007, pp.169-178.

[42] G. Zouganelis, and D. Budimir, "Effective Dielectric Constant and design of Sliced Luneberg Lens, *Microwave and Optical Technology Letters*, Volume 49, Issue 10, October 2007.

[41] G. Zouganelis, and D. Budimir, "Silicon Gap-Loaded Microstrip Slit-Tetragonal Resonator Under IR-Irradiation, *Microwave and Optical Technology Letters*, vol.49, No.3, March 2007, pp. 699-702

2006: [2]

[40] A. Shelkovnikov, and D. Budimir, " Left Handed Rectangular Waveguide Bandstop Filters", *Microwave and Optical Technology Letters*, vol. 48, No. 5., May 2006, pp. 846-848

H. Koulouzis, and D. Budimir, "LDMOS RF Power Amplifiers with Improved Performance Characteristics using Defected Ground Structure", *Microwave and Optical Technology Letters*, vol. 48, No. 1., January 2006, pp. 50-53.

2005: [4]

[38] G. Shen and D. Budimir, " Bandpass Filters Using Periodically Loaded Comline Resonators", *International Journal of RF and Microwave Computer-Aided Engineering*, 2005

G. Goussetis, A. P. Feresidis, D. Budimir, and J.C. Vardaxoglou, "Compact Ridge Waveguide Filter with Parallel and Series Coupled Resonators", *Microwave and Optical Technology Letters*, April 2005.

V. Benjin-Crnojevic and D. Budimir, "Novel 3-D Hilbert Microstrip Resonators", *Microwave and Optical Technology Letters*, August 5, 2005.

L. Lalehparvar and D. Budimir, "Waveguide Bandpass Filters for MMIC Applications", *Microwave and Optical Technology Letters*. September 2005.

2004: [5]

[34] G. Goussetis, and D. Budimir, " Compact Ridged Waveguide Bandpass Filters and Diplexers", *Microwave and Optical Technology Letters*, June 2004.

G. Shen and D. Budimir, " Comline Filters Using Periodically Loaded Resonators", *Microwave and Optical Technology Letters*, vol. 40, No.3, pp. 189-191, February 2004.

A. Shelkovnikov, G. Goussetis, and D. Budimir, " Compact Ridged Waveguide Bandpass Filters and Diplexers", *Microwave and Optical Technology Letters*, June 2004.

V. Crnojevic-Bengin and D. Budimir, " Integrated Waveguide Bandpass Filters Using Thick-Film Technology", *IEEE MTT Microwave Review*, No. 1, Vol. 10, pp. 9-13, June 2004.

M. Rakic, B. Jokanovic and D. Budimir, " Influence of Manufacturing Tolerances on Central Frequency of a Narrow Band E-plane Waveguide Filters", *IEEE MTT Microwave Review* , No. 1, Vol. 10, pp. 14-19, June 2004.

2003: [6]

[29] D. Budimir, and G. Goussetis., "Design of Asymmetrical RF and Microwave Bandpass Filters by Computer Optimization", *IEEE MTT Transactions on Microwave Theory and Techniques*, Vol. 51, No. 4, pp. 1174-1178, April 2003.

G. Goussetis and D. Budimir, "Novel Periodically Loaded E-plane Filters,"*IEEE Microwave and Wireless Components Letters*, June, 2003.

G. Goussetis and D. Budimir, "Novel Periodically Loaded Ridged Waveguide Resonators, " *Microwave and Optical Technology Letters*, Vol. 37, No. 4, pp. 266-268, May 20, 2003.

Casanueva, J.A., Mediavilla, A., McKay, M., Caplin, M, Budimir, D, Pereda, J.A., and Helszajn J., "Characteristic Impedance in Triple Ridge Waveguide", *Microwave Engineering Europe*, May 2003.

L. Lalehparvar, and D. Budimir, " 3D Coplanar Waveguide Lowpass Filters for MMIC Applications", "Microwave and Optical Technology Letters", Vol. 37, No. 6, pp.403-405, June 20, 2003.

N. Males-Ilic, B. Milovanovic, and D. Budimir, "Improvement in Second Harmonics Linearization Technique for Multichannel Amplifiers", *Microwave and Optical Technology Letters*, Vol. 38, No. 2, pp. 150-153, July 20, 2003.

2002: [1]

[23] L. Lalehparvar, G. Goussetis and D. Budimir, "Novel Periodically Loaded Multilayer Resonator Structures,"*Microwave and Optical Technology Letters*, Vol. 35, No. 5, pp. 374-375, December 5, 2002

2001: [5]

[22] G. Goussetis, D. Budimir, and J. Helszajn, "Upper and Lower Bounds of 180 Degree Unit Element of the Ridge Waveguide; Calculations and Measurements," *Microwave and Optical Technology Letters*, Vol. 31, No. 4, pp. 260-261, November 2001.

A. Marincic and D. Budimir, "Nikola Tesla's Contribution of Radiowave Propagation", *IEEE MTT Microwave Review*, pp. 24-28, Vol.7, No.2, September 2001.

B. Milivanovic, N. Males-Ilic, and D. Budimir, "A Multicarrier Amplifier Design Linearized Through Second Harmonics and Second Order IM Feedback", International Journal FACTA UNIVERSITATIS SERIES: ELECTRONICS AND ENERGETICS, pp. 243-252, Vol. 14, No.2, August 2001.

D. Budimir, N. Males-Ilic, B. Milovanovic, "Design of Hybrid MIC Power Amplifier Linearized trough Second Harmonics Feedback", *IEEE MTT Microwave Review*, Vol.7, No. 1, pp.13-18, July 2001.

C. S. Aitchison, M. Mbabele, M. R. Moazzam., D. Budimir, and F. Ali" Improvement of Third Order Intermodulation Products of RF and Microwave Amplifiers by Injection", *IEEE MTT Transactions on Microwave Theory and Techniques*, Vol. 49, No. 6, pp.1148-1154, June 2001.

2000: [2]

[17] D. Budimir, "Book Review: Ridge Waveguides and Passive Microwave Components; J. Helszajn ", *IEE Electronics and Communication Engineering Journal*, Vol. 13, No. 5, pp.220, October 2000

D. Budimir, M. Modeste, and C. S. Aitchison, "A Difference Frequency Technique for Improving IM Performance of RF Amplifiers", *Microwave and Optical Technology Letters*, Vol. 24, No. 3, pp.208-210, February 5, 2000.

1999: [4]

[15] D. Budimir, and C. W. Turner, "Novel High-Q Waveguide E-plane Resonators Using Periodic Metallic Septa , *Microwave and Optical Technology Letters* , Vol. 23, No. 5, pp. 311-312, December 5, 1999.

D. Budimir, I. D. Robertson, Q. H. Wang, and A. A. Rezazadeh, "Design of Coplanar Waveguide Multilayer Square Spiral Inductors for Monolithic Microwave Integrated Circuits", *International Journal of RF and Microwave Computer-Aided Engineering*, Vol.9, Issue 2, pp. 86-92, March 1999.

D. Budimir, "Design of General Filters for Modern Digital Communication Systems", *Microwave Engineering Europe*, pp.25-36, March 1999.

D. Budimir, and C. W. Turner, "Extremely Narrow Band Microstrip Bandpass Filters using Periodic Couplers", *Microwave and Optical Technology Letters* , pp.268-270, Vol.20, No.4, pp.268-270, February 20,1999.

1998: [3]

[11] D. Budimir, "Design of RF, Microwave and Millimetre-wave Resonators and Filters, *IEEE MTT Microwave Review* , pp. 23-27, Vol.5, No.2, December 1998.

D. Budimir, "E-plane Filters with Resonators of Different Cuttof Frequency", International Journal FACTA UNIVERSITATIS SERIES: ELECTRONICS AND ENERGETICS, pp. 249-254, Vol. 11, No.2, 1998.

D. Budimir, I. D. Robertson, A. H. Khalid and A. A. Rezazadeh, "Multilayer Coplanar Waveguide Lowpass Filters for MMICs", *Microwave and Optical Technology Letters*, Vol. 17, No. 2, , February 5, 1998.

1997: [2]

[8] D. Budimir, and I. D. Robertson, "Optimization-Oriented Design of Coplanar Waveguide Bandpass Filters", *Microwave and Optical Technology Letters*, Vol. 15, No. 1, pp. 52-54, May 1997.

D. Budimir, "Optimized E-plane Bandpass Filters with Improved Stopband Performance", *IEEE MTT Transactions on Microwave Theory and Techniques*, Vol. 45, No. 2, pp. 212-220, February 1997.

1996: [4]

[6] S. Lucyszyn, Q. H. Wang, D. Budimir, and I.D. Robertson, "Design of Compact Monolithic Dielectric-filled Metal-Pipe Rectangular Waveguide for Millimetre-wave Applications", *IEE Proceedings - Microwave, Antennas and Propagation* , part H, Vol. 143, No.5, October 1996.

U. Karacaoglu, A. H. Khalid, D. Budimir, P. A. Warburton, A. A. Rezazadeh, I. D. Robertson, and C W. Turner, "V-Shaped Transmission Lines for HTS Circuits and MMICs", *Microwave Engineering Europe*, October 1996.

D. Budimir, and V. Postoyalko, "EPFILTER: A CAD Package for E-plane Filters", *Microwave Journal*, August 1996.

Q. H. Wang, T. Gokdemir, D. Budimir, U. Karacaoglu, A. A. Rezazadeh and I.D. Robertson, "Fabrication and Microwave Characterisation of Multilayer Circuits for MMIC Applications", *IEE Proceedings – Microwave, Antennas and Propagation*, part H, Vol. 143, No.3, June 1996.

1995: [1]

[2] D. Budimir, Q. H. Wang, A. A. Rezazadeh and I. D. Robertson, "V-Shaped Transmission Lines for Multilayer MMICs", *IEE Electronics Letters*, pp. 1928-1929, vol. 31, no. 22, 26th October 1995.

1994: [1]

[1] V. Postoyalko, and D. Budimir, "Design of Waveguide E-plane Filters with All-Metal Inserts by Equal Ripple Optimization", *IEEE MTT Transactions on Microwave Theory and Techniques* , Vol.42, No.2, pp.217-222, February 1994.

Г.1.3. Радови саопштени на конференцијама (1992 - до данас) [299]

Year 2025: [6]

[6] Rawad Asfour, Shahin Salarian, Uros Jankovic, Djuradj Budimir, Dariush Mirshekar-Syahkal, “Design of a High-gain Antenna System for MM-wave Full-duplex Communication”, International Conference on Electromagnetics in Advanced Applications (ICEAA2025) and IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications (APWC2025), 8-12 September 2025, Palermo, Italy.

[5] Moses Kasule and Djuradj Budimir, “DPD Linearisation of Transmitters for 5G Wireless Networks “ Mediterranean Conference on Embedded Computing (MECO’2025) & International Conference on Cyber-Physical Systems and Internet-of-Things (CPS&IoT’2025), 10 -14 June 2025, Budva, Montenegro.

[4] Cihan Ucar, Olga Yugay, Moses Kasule and Djuradj Budimir, “Integrating IoT Detection Sensors for Intelligent Classroom Utilization”, 21st Annual International Conference on Information Technology & Computer Science, 19-23 May 2025, Athens, Greece.

[3] Hassan Alhilo; Lutfi Albasha; Djuradj Budimir, ”Feasibility Study of Noise-Cancelling Low Noise Amplifiers for Millimeter-Wave Wi-Fi 8 Applications”, 2025 7th International Youth Conference on Radio Electronics, Electrical and Power Engineering (REEPE), 08-10 April 2025, Moscow, Russian Federation.

[2] Dalal Harikesh, Dariush Mirshekar-Syahkal, Djuradj Budimir, ““Antenna Arrays for Full-Duplex Systems”, The 31st IEEE International Conference on Telecommunications - ICT 2025, 28th – 29th April 2025, Budva, Montenegro.

[1] Mirjana Maksimović, Miodrag Forcan, Marko Malović and Djuradj Budimir, Cloud and NB-IoT Integration for Automatic Meter Reading in Smart Grids: A Conceptual Implementation Framework and Requirements, 24th International Symposium INFOTEH-JAHORINA, 19-21 March 2025.

Year 2024: [4]

[4] Moses Kasule, and Djuradj Budimir, “Performance Analysis of Post-OFDM Waveforms in 5G Wireless Environments”, IEEE Asia Pacific Microwave Conference, 17-20 November 2024, Bali, Indonesia.

[3] Cihan Ucar, Muhamrem Malok, Olga Yugay, and Djuradj Budimir, “IoT Motion Detection Sensors for Monitoring in a Smart Campus”, Mediterranean Conference on Embedded Computing (MECO’2024) & International Conference on Cyber-Physical Systems and Internet-of-Things (CPS&IoT’2024), 11-14 June 2024, Budva, Montenegro.

[2] Moses Kasule, and Djuradj Budimir, “Nonlinear Distortion Analysis in Wireless Cellular 5G IoT Systems, Mediterranean Conference on Embedded Computing (MECO’2024) & International Conference on Cyber-Physical Systems and Internet-of-Things (CPS&IoT’2024), 11-14 June 2024, Budva, Montenegro.

[1] Hemanth Kumar Asokan, Muhamrem Maloku, Olga Yugay and Djuradj Budimir, “IoT Based Monitoring of University Classrooms”, 20th Annual International Conference on Information Technology & Computer Science, 20-23 May 2024, Athens, Greece.

Year 2023: [6]

[6] Olga Yugay, Natalia Yerashenia, Djuradj Budimir, “Study of Machine Learning Models for IoT Based Efficient Classroom Usage”, The 23rd International Conference on Next Generation Wired/Wireless Advanced Networks and Systems (NEW2AN2023), American University in the Emirates, 21-22 December 2023, Dubai, UAE.

[5] Aleksandra B. Đorić, Aleksandar S. Atanasković, Nataša P. Maleš Ilić, Biljana P. Stošić, Djuradj S. Budimir, Evaluation of the Dual-Band PA Nonlinear Behavior for 5G Signals, 2023 16th International

[4] Aleksandra Đorić, Aleksandar Atanasković, Nataša Maleš-Ilić, Biljana Stošić, Djuradj Budimir, "Amplifier Linearization by using Parallel Coupled Stepped-Impedance Resonator Filter in the Linearization Circuit", 58th International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST2023), June 29 – July 01, 2023, Niš, Serbia.

[3] Olga Yugay, Natalia Yerashenia and Djuradj Budimir, "IoT based Machine Learning Models for Efficient Classroom Usage using Timetabling Data", WIUT-UW Computing Conference 2023: Digitalisation and Digital Transformation over Silk Road, 17 May 2023, Tashkent, Uzbekistan.

[2] Moses Kasule, and Djuradj Budimir, "Contribution to Evaluation of Nonlinear Distortion in 5G IoT Subsystems ",12th Mediterranean Conference on Embedded Computing (MECO2023) & CPSIoT2023, 6-10 June 2023, Budva, Montenegro.

[1] Aleksandar Atanasković, Nataša Maleš-Ilić, Biljana Stošić, Djuradj Budimir and Aleksandra Đorđić "Combination of Digital Second-Order Linearization Technique and DPD Compensation Technique - Concept and Results", 10th Jubilee International Conference on Electrical, Electronic and Computing Engineering IcETRAN 2023, 5-8 June 2023, East Sarajevo, Republic of Srpska, B&H.

Year 2022: [5]

[5] Uros Jankovic, Shakti Chauhan, Ananjan Basu and Djuradj Budimir, "Universal Multilayer Substrate Integrated Waveguide Cavity Adaptors for Metal Waveguides", *European Microwave Week (EuMW2022)*, 25-30 September 2022, Milan, Italy.

[4] Mioljub Jovanovic, Milan Cabarkapa and Djuradj Budimir," Network Service Decomposition and Telemetry Optimisation using Heuristics, IEEE International Conference on Circuits, Systems, Communications and Computers, Chania, Crete Island, Greece July 19-22, 2022.

[3] Atanaskovic Aleksandar S, Males-Ilic Natasa, Budimir Djuradj, "Linearization of the 5G power amplifier below 6 GHz by DPD Compensation technique", 57th International Scientific Conference on Information, Communication and Energy Systems and Technologies (ICEST 2022), 48-51, 16-18 June 2022, Ohrid, North Macedonia.

[2] Aleksandar Atanasković, Nataša Maleš-Ilić, Biljana Stošić and Djuradj Budimir, Doherty PA Linearization by Injection of the 2nd order Digitally Processed Signals for 5G FBMC modulation, IcETRAN 2022 Conference, 6-9 June 2022, Serbia.

[1] T. Muškatirović-Zekić, M. Čabarkapa, N. Nešković, D. Budimir, „Kompenzacija nelinearne distorzije kod hybrid beamforming MIMO predajnika“, 21st International Symposium INFOTEHJA HORINA, pp. 72-76, March 2022.

Year 2021: [6]

[6] T. Muškatirović-Zekić, M. Čabarkapa, N. Nešković and D. Budimir, "An Overview of Digital Predistortion Solutions for Hybrid Beamforming MIMO Transmitters," 2021 29th Telecommunications Forum (TELFOR), Belgrade, Serbia, pp. 1-4, November 2021, doi: 10.1109/TELFOR52709.2021.9653422.

[5] V. Terzija, S. Djurovic, D. Milovanovic, D. Cetenovic and D. Budimir, "On Smart Energy Systems Supported by Wireless Networks", *European Microwave Week (EuMW2021)*, 2-7 April 2022, London, UK

[4] Aleksandar Atanasković, Nataša Maleš Ilić, Aleksandra Đorić and Djuradj Budimir, "Doherty Amplifier Linearization in Experiments by Digital Injection Methods", 29th Telecommunications Forum (TELFOR 2021), 23rd and 24th November 2021, Belgrade, Serbia.

[3] Aleksandar Atanasković, Nataša Maleš Ilić, Aleksandra Đorić and Djuradj Budimir, "Doherty Amplifier Linearization in Experiments by Digital Injection Methods", *15th International Conference on Advanced Technologies, Systems and Services in Telecommunications (TELSIKS2021)*, 20-22 October, 2021, Nis, Serbia.

[2] Mioljub Jovanovic, Milan Cabarkapa and Djuradj Budimir, "Design of a Network Topology Using CISCO NSO Orchestrator", IcETRAN 2021 Conference, 8-10 September 2021, Ethno village Stanišići, Republic of Srpska, B&H.

[1] Tamara Muskatirovic Zekic, Milan Cabarkapa, Natasa Neskovic and Djuradj Budimir, "An overview of existing band-limited DPD models", IcETRAN 2021 Conference, 8-10 September 2021, Ethno village Stanišići, Republic of Srpska, B&H.

Year 2019: [5]

[5] Uros Jankovic, Nandun Mohottige, Ananjan Basu and Djuradj Budimir, Low-Cost Hybrid Manufactured Waveguide Bandpass Filters with 3D Printed Insert Dielectric, *22th European Microwave Week (EuMW2019)*, 29th September - 4th October 2019, Paris, France.

[4] A. Ž. Ilic, B.M. Bukvic, D. Budimir, M. M. Ilic, "TUNING THE FILTER RESPONSES WITH GRAPHENE BASED RESONATORS", ICEAA (International Conference on Electromagnetics in Advanced Applications) - IEEE APWC (IEEE-APS Topical Conference on Antennas and Propagation in Wireless Communications), September 9 -13, 2019, Granada, Spain.

[3] O. Olukoya, B. Malcic and D. Budimir, Impact of 5G Waveforms on Energy Harvesting Rectifier Performance, *Wireless Power Week (WPW2019)*, 17-23 June 2019, London, UK.

[2] O. Olukoya and D. Budimir, Evaluation of Waveform Candidates for 5G Wireless Communications, *European Microwave Conference in Central Europe (EuMCE2019)*, 13-15 May 2019, Prague, Czech Republic.

[1] D. Budimir, N. Banovic-Curguz, D. Ilijasevic and R. Gavric, Progress Standardization Activities on 5G Technology, 18th International Symposium INFOTEH-JAHORINA, 20-22 March 2019, RS, B&H.

Year 2018: [7]

[7] Dijana Ilijasevic; Natasa Banovic-Curguz; Djuradj Budimir, Embracing the 5G Era with Appropriate Regulation Framework, 26th Telecommunications Forum (TELFOR), 20-21 November 2018, Belgrade, Serbia.

[6] Oludotun Olukoya, Guido Unich, Djuradj Budimir, Rectifier Nonlinearity Effects on 4G and 5G Wireless Systems, IEEE MTT-S International Microwave and RF Conference (**IMaRC2018**), Nov 28-30, 2018, Kolkata, India.

[5] Uros Jankovic, Ananjan Basu and Djuradj Budimir, 'Substrate Integrated Coaxial Line Planar Transitions to Single-Layer Transmission Lines and Waveguides', IEEE MTT-S International Microwave and RF Conference (**IMaRC2018**), Nov 28-30, 2018, Kolkata, India.

[4] Oludotun Olukoya, Vassilis Kodogiannis, Djuradj Budimir, Highly Efficient and Linear Balanced Power Amplifiers for 4G Applications, 41st International Conference on Telecommunications and Signal Processing (TSP2018), 4-6 July 2018, Athens, Greece.

[3] Guido Unichi, Oludotun Olukoya, Djuradj Budimir, 'Rectifiers Based on Quadrature Hybrid Coupler with Improved Performance for Energy Harvesting, EEE MTT-S Wireless Power Transfer Conference (WPTC2018) June 3rd-7th, 2018, Montreal, Quebec, Canada.

[2] Uros Jankovic, Djuradj Budimir, A Fully Planar Substrate Integrated Probe-Based Wideband Orthomode Transducer, *12th European Conference on Antennas and Propagation (EuCAP2018)*, 8-13 April 2018, London, UK

[1] Sherif R. Zahran, Mahmoud A. Abdalla, and D. Budimir, Impulse Response with Correlation Study of a Broadband Bended Wearable Monopole Antenna, 12th European Conference on Antennas and Propagation (EuCAP2018), 8-13 April 2018, London, UK.

Year 2017: [3]

Uros Jankovic, Nandun Mohottige, Oleksandr Glubokov and Djuradj Budimir, *Hybrid Manufactured Waveguide Resonators and Filters for mm-Wave Applications*, 2017 IEEE MTT-S International Microwave Workshop Series on Advanced Materials and Processes for RF and THz Applications (IMWS-AMP, 22-24 September 2017, Pavia, Italy).

W. Ahmad, Andrzej Tarczynski and Djuradj Budimir, “Design of Monopole Antennas for UWB Applications”, 2017 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, July 9 – July 14, 2017, San Diego, CA, USA.

Oludotun Olukoya, Andrzej Tarczynski and Djuradj Budimir, “Miniatirised Inkjet-printed Quadrature Hybrid Couplers for Multiband Wireless System”, 2017 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, July 9 – July 14, 2017, San Diego, CA, USA.

2016: [3]

U. Jankovic and D. Budimir, “Stepped-bend Substrate Integrated Waveguide to Rectangular Waveguide Transition”, 2016 IEEE International Symposium on Antennas and Propagation and USNC-URSI Nnational Radio Science Meeting, June 26 – July 1, 2016, San Juan, Puerto Rico, USA.

W. Ahmad and D. Budimir, “Inkjet-Printed Filtennas with Triple Bandnotch”, 2016 IEEE International Symposium on Antennas and Propagation and USNC-URSI Nnational Radio Science Meeting, June 26 – July 1, 2016, San Juan, Puerto Rico, USA.

W. Ahmad and D. Budimir, “Reconfigurable UWB Filtennas with Dual Bandnotch for Unwanted Bands using Graphene based Switches”, 2016 IEEE International Symposium on Antennas and Propagation and USNC-URSI Nnational Radio Science Meeting, June 26 – July 1, 2016, San Juan, Puerto Rico, USA.

2015: [6]

N. Mohottige, U. Jankovic and D. Budimir, “Ultra Compact E-plane Waveguide Multiplexers”, 45th European Microwave Conference (EuMC2015), September 6-11, 2015, Paris, France.

W. Ahmad and D. Budimir, “Reconfigurable UWB Filtennas with Sharp WLAN Dual Bandnotch”, 45th European Microwave Conference (EuMC2015), September 6-11, 2015, Paris, France.

M. Bozic and D. Budimir, “Joint Compensation of I/Q Impairments, Power Amplifier Nonlinearity and Crosstalk in 4G MIMO Transmitters using Two-Box Model”, 45th European Microwave Conference (EuMC2015), September 6-11, 2015, Paris, France.

B. Bukvic, U. Jankovic and D. Budimir, “A Magnetically Biased Graphene Based CPW Switch for Microwave Applications”, 2015 IEEE International Symposium on Antennas and Propagation and USNC-URSI Nnational Radio Science Meeting, July 19-25, 2015, Vancouver, British Columbia, Canada.

W. Ahmad, A. Maric and N. Ivanisevic, and D. Budimir, “Inkjet Printed Bandpass Filters and Filtennas using Silver Nanoparticle Ink on Flexible Substrate”, 2015 IEEE International Symposium on Antennas and Propagation and USNC-URSI Nnational Radio Science Meeting, July 19-25, 2015, Vancouver, British Columbia, Canada.

W. Ahmad and D. Budimir, “Dual-band WLAN Antenna Array with Integrated Bandpass Filters for Harmonic Suppression”, 2015 IEEE International Symposium on Antennas and Propagation and USNC-URSI Nnational Radio Science Meeting, July 19-25, 2015, Vancouver, British Columbia, Canada.

2014: [6]

[6] Jelena Misić, Vera Marković and Djuradj Budimir, Behavioral Modeling of Low Noise Amplifiers for LTE Systems Based on Modified Elman Neural Networks, 22nd Telecommunications Forum Telfor2014, 25-27 November 2014, Belgrade, Serbia.

[5] Jelena Mijuskovic, Branko Bukvic, Natasa Neskovic, Natasa Males-Ilic, and Djuradj Budimir, "Compensation of Nonlinear Distortion in RF Power Amplifiers by Injection for LTE Applications", 22nd Telecommunications Forum Telfor2014, 25-27 November 2014, Belgrade, Serbia.

[4] Waqas Ahmad and D. Budimir, "Dual-band WLAN Antenna Array with Integrated Filters for Harmonic Suppression", 2nd IET Active and Passive RF Devices Seminar/Conference, 29 October 2014, Birmingham, UK.

[3] N. Mohottige, B. Bukvic and D. Budimir, "Reconfigurable E-plane Waveguide Resonators For Filter Applications", 44th European Microwave Conference (EuMC2014), October 5-10, 2014, Rome, Italy.

[2] W. Ahmad and D. Budimir, "Reconfigurable WLAN Notch for UWB Filters", 44th European Microwave Conference (EuMC2014), October 5-10, 2014, Rome, Italy.

[1] Nandun Mohottige, Uros Jankovic and Djuradj Budimir, "Ultra Compact Pseudo-elliptic Inline Waveguide Bandpass Filters Using Bypass Coupling", IEEE MTT International Microwave Symposium (IMS2014), June 1- 6, 2014, Tampa, Florida, USA.

2013: [10]

[10] K. Chakrabarty, B. Bukvic, N. Mohottige and D. Budimir, Nonlinear Distortion Evaluation of Reconfigurable RF Circuits in Wireless Communication Systems", SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference (IMOC2013), 4 – 7 August 2013, Rio de Janeiro, Brazil.

[9] N. Mohottige, C. J. Panagamuwa, D. Budimir, "Optically Reconfigurable E-plane Waveguide Resonators and Filters", 43rd European Microwave Conference (EuMC2013), October 6-11, 2013, Nuremberg, Germany.

[8] K. Cabarkapa, D. Budimir, "Compact Tunable Bandstop Filters using Defected Microstrip Structure for Multi-Standard Wireless Systems", 43rd European Microwave Conference (EuMC2013), October 6-11, 2013, Nuremberg, Germany.

[7] K. Rabbi, D. Budimir, "Miniaturised Sharp Rejection Bandpass Filter with Reconfigurable Bandwidth for UWB Applications", 43rd European Microwave Conference (EuMC2013), October 6-11, 2013, Nuremberg, Germany.

[6] N. Mohottige, U. Jankovic and D. Budimir, "Compact E-Plane Varactor –Tuned Bandpass Filters", 2013 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, July 7-12, 2013, Lake Buena Vista, Florida, USA.

[5] U. Jankovic, N. Mohottige, V. Petrovic, and D. Budimir, "Electromagnetic Modelling of Dielectric-filled Waveguide Antenna Filter Arrays", 2013 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, July 7-12, 2013, Lake Buena Vista, Florida, USA.

[4] B. Bukvic, N. Neskovic, and D. Budimir, " Reconfigurable Matching Networks for Wireless Transmitters", 2013 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, July 7-12, 2013, Lake Buena Vista, Florida, USA.

[3] K. Chakrabarty, K. Rabbi, C. J. Panagamuwa and J. C. Vardaxoglou and D. Budimir, "Linearity Evaluation of Optically Reconfigurable UWB Microstrip Bandpass Filter", 2013 IEEE International Symposium on Antennas and Propagation and USNC-URSI National Radio Science Meeting, July 7-12, 2013, Lake Buena Vista, Florida, USA.

[2] M. Cabarkapa, N. Neskovic, and D. Budimir, "2-D Nonlinearity Compensation Technique for Concurrent Dual-Band Wireless Transmitters", 2013 IEEE MTT-S International Microwave Symposium (IMS2013), 2 – 7 June 2013, Seattle, WA, USA.

[1] K. Rabbi and D. Budimir, "Miniaturized Dual-Mode Microstrip Bandpass Filters with a Reconfigurable Notched Band for UWB Applications", 2013 IEEE MTT-S International Microwave Symposium (IMS2013), 2 – 7 June 2013, Seattle, WA, USA.

2012: [8]

[8] U. Jankovic, N. Mohottige, Z. Golubicic, V. Petrovic and D. Budimir, "Electromagnetic Modelling of Dielectric-filled Waveguide Antenna Filters", IEEE 20th Telecommunication Forum (TELFOR 2012), 20-22 November 2012, Belgrade, Serbia.

- [7] B. Bukvic, N. Neskovic and D. Budimir, "Reconfigurable RF Power Amplifiers for Wireless Transmitters", *IEEE 20th Telecommunication Forum (TELFOR 2012)*, 20-22 November 2012, Belgrade, Serbia.
- [6] O. Glubokov and D. Budimir, Compact Filters Using Metal-Dielectric Inserts, *42nd European Microwave Conference (EuMC2012)*, 28 October – 2 November 2012, Amsterdam, The Netherland.
- [5] M. Bozic, M. Cabarkapa, N. Neskovic, A. Neskovic and D. Budimir, "Evaluation of Nonlinear Distortion in MIMO Transmitters", *42nd European Microwave Conference (EuMC2012)*, 28 October – 2 November 2012, Amsterdam, The Netherland.
- [4] K. Rabbi and D. Budimir, "Optically Reconfigurable CPW Filters for UWB Applications", *IEEE International Symposium on Antennas and Propagation and CNC/USNC/URSI national Radio Science Meeting (APS2012)*, July 8-14, 2012, Chicago, Illinois, USA.
- [3] M. Cabarkapa, M. Bozic, N. Neskovic, A. Neskovic and D. Budimir, "Compensation of Undesired Effects in MIMO Wireless Transceivers", *IEEE International Symposium on Antennas and Propagation and CNC/USNC/URSI national Radio Science Meeting (APS2012)*, July 8-14, 2012, Chicago, Illinois, USA.
- [2] N. Mohottige and D. Budimir, "Compact Dielectric-Filled Waveguide Filters and Diplexers", *IEEE International Symposium on Antennas and Propagation and CNC/USNC/URSI national Radio Science Meeting (APS2012)*, July 8-14, 2012, Chicago, Illinois, USA.
- [1] D. Draskovic, J. R. O. Fernandez, C. Briso-Rodriguez and D. Budimir, "A Planar Ultrawideband Antenna with Photonically Controlled Notched Bands", *IEEE International Symposium on Antennas and Propagation and CNC/USNC/URSI national Radio Science Meeting (APS2012)*, July 8-14, 2012, Chicago, Illinois, USA.
- 2011: [9]**
- [9] K. Chakrabarty, L. Athukorala and D. Budimir, Compact High Linearity Switchable Dual-Mode Microstrip Bandpass Filters, *IEEE Asia Pacific Microwave Conference (APMC2011)*, 5-8 December 2011, Melbourne, Australia.
- J. C. Vardaxoglou, A. Chauraya, L. Athukorala and D. Budimir, 'Tunable EBG Phase Shifters for Antenna Applications', *Loughborough Antennas & Propagation Conference (LAPC2011)*, 14-15 November 2011, Loughborough, United Kingdom
- K. Rabbi, L. Athukorala, C. Panagamuwa, J. C. Vardaxoglou and D. Budimir, "High-Linearity Reconfigurable Microstrip UWB Bandpass Filters", *41st European Microwave Conference*, 9-14 October 2011, Manchester, UK.
- O. Glubokov and D. Budimir, Novel Inline Waveguide E-plane Filters Using Dual-Mode Extracted Pole Section, *41st European Microwave Conference*, 9-14 October 2011, Manchester, UK.
- M. Vaskovic, Z. Djurovic, A. Tarczynski, D. Budimir, Robust Estimation of Nonlinear Model Coefficients for Wireless Power Amplifiers, *The 10th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS 2011*, 5-8 October 2011, Nis, Serbia.
- K. Chakrabarty, L. Athukorala, Z. Golubicić, D. Budimir, Enhanced Wireless Transmitters Using an Inter-Stage Notch Filter, *The 10th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services - TELSIKS 2011*, 5-8 October 2011, Nis, Serbia.
- K. Rabbi, A. Anand, L. Athukorala, D. Budimir, "Simulation of Reconfigurable WLAN Notch for UWB Filters", *IEEE International Symposium on Antennas and Propagation (AP-S) and 2011 USNC/CNC/URSI Meeting*, 3-8 July 2011, Spokane, Washington, USA.
- N. Mohottige, M. Potrebić, Z. Golubicić, D. Budimir, Electromagnetic Modelling of Dielectric-filled Waveguide Filters for Diplexer Applications, *IEEE International Symposium on Antennas and Propagation (AP-S) and 2011 USNC/CNC/URSI Meeting*, 3-8 July 2011, Spokane, Washington, USA.
- [1] O. Glubokov, S. Nagandiram, A. Tarczynski, D. Budimir, Substrate Integrated Waveguide Cross-Coupled Filters for Wireless Applications, *IEEE International Symposium on Antennas and Propagation (AP-S) and 2011 USNC/CNC/URSI Meeting*, 3-8 July 2011, Spokane, Washington, USA.

2010: [16]

- [16] K. Rabbi, L. Athukorala, C. Panagamuwa, J. C. Vardaxoglou, M. Philippakis and D. Budimir, "Optically Reconfigurable Microstrip UWB Bandpass Filters", *IEEE Loughborough Antennas and Propagation Conference (LAPC2010)*, 8-9 November 2010, Loughborough, United Kingdom.
- L. Athukorala, M. Potrebic and D. Budimir, "Design of Open-Loop Dual-Mode Microstrip Filters", *IEEE 18th Telecommunications Forum TELFOR 2010* November 23-25, 2010, Belgrade, Serbia.
- O. Glubokov, M. Potrebic and D. Budimir, "Multilayer Substrate Integrated Waveguide Bandpass Filters", *5th European Conference on Circuits and Systems for Communications (ECCSC'10)*, 23 – 25 November 2010, Belgrade, Serbia.
- O. Glubokov, and D. Budimir, "Compact E-plane Doublet Structures for Modular Filter Design", *40th European Microwave Conference*, 29 September – 1 October 2010, Paris, France.
- L. Athukorala, D. Bondar and D. Budimir, "Compact High-Linarity Frequency Tunable Dual-Mode Microstrip Filters", *40th European Microwave Conference*, 29 September – 1 October 2010, Paris, France.
- N. Suntheralingam, N. Mohottige and D. Budimir, "Electromagnetic Modelling of Ridged Waveguide Resonator Loaded Bandpass Filters", *IEEE International Symposium on Antennas and Propagation (AP-S) and 2010 USNC/CNC/URSI Meeting*, Toronto, ON, Canada, July 11-17, 2010.
- [10] D. Zayniyev and D. Budimir, "Dual-Band Microstrip Antenna Filter for Wireless Communications," *IEEE International Symposium on Antennas and Propagation (AP-S) and 2010 USNC/CNC/URSI Meeting*, Toronto, ON, Canada, July 11-17, 2010.
- O. Glubokov, B. Shelkovnikov and D. Budimir, "Compact Inline Substrate Integrated Waveguide Filter with Transmission Zeros," *IEEE International Symposium on Antennas and Propagation (AP-S) and 2010 USNC/CNC/URSI Meeting*, Toronto, ON, Canada, July 11-17, 2010.
- D. Draskovic, C. Christodoulou, and D. Budimir, "Optically Reconfigurable RF Circuits", *European Conference on Antennas and Propagation 2010 (EuCAP2010)*, 12-16 April 2010, Barcelona, Spain.
- D. Zayniyev and D. Budimir, "Integrated Microstrip Antenna Diplexers", *European Conference on Antennas and Propagation 2010 (EuCAP2010)*, 12-16 April 2010, Barcelona, Spain.
- O. Glubokov, N. Suntheralingam, N. Mohottige and D. Budimir, "Electromagnetic Analysis of SRR and S-shaped Resonator Loaded Filters", *European Conference on Antennas and Propagation 2010 (EuCAP2010)*, 12-16 April 2010, Barcelona, Spain.
- H. F. AbuTarboush, R. Nilavalan, H. S. Al-Raweshidy and D. Budimir, "Widely Tunable Multiband Reconfigurable Patch Antenna for Wireless Applications", *European Conference on Antennas and Propagation 2010 (EuCAP2010)*, 12-16 April 2010, Barcelona, Spain.
- H. F. AbuTarboush, R. Nilavalan, H. S. Al-Raweshidy and D. Budimir, "A Reconfigurable H-shape Antenna for Wireless Applications", *European Conference on Antennas and Propagation 2010 (EuCAP2010)*, 12-16 April 2010, Barcelona, Spain.
- H. F. AbuTarboush, R. Nilavalan, H. S. Al-Raweshidy and D. Budimir, 'A Compact Printed Antenna for Multiband Wireless Applications', *6th IEEE International Workshop on Antenna Technology 2010 (iWAT2010)*, Lisbon, Portugal.
- D. Bondar, N. D. Lopez, Z. Popovic and D. Budimir, Linearization of High-Efficiency Power Amplifiers using Digital Baseband Predistortion with Iterative Injection, *IEEE Radio Wireless Symposium (RWS 2010)*, 10-14 January 2010, New Orleans, LA, USA.
- [1] M. Borenović, A. Neskovic, and D. Budimir, "Cross-System Localization in PLMN Using Neural Networks" *IEEE Radio Wireless Symposium (RWS'2010)*, 10-14 January 2010, New Orleans, LA, USA.

2009: [26]

[26] M. Borenovic, A. Neskovic, Dj. Budimir, "Cascade-connected ANN structures for indoor WLAN positioning", 10th international Conference on Intelligent Data Engineering and Automated Learning (IDEAL'09), 23-26 September, 2009, Burgos, Spain.

H. F. AbuTarboush, R. Nilavalan, H. S. Al-Raweshidy and D. Budimir "Double C-slots Reconfigurable patch Antenna for Dualband and Wideband Cognitive Radio Applications, *IEEE Loughborough Antennas and Propagation Conference (LAPC'2009)*, Loughborough, UK, November 16-17, 2009

L. Athukorala, D. Budimir, "Dual-Mode Closed-Loop Microstrip Filters for Wireless Applications", *IEEE 9th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, 7 – 9 October, 2009, Nis, Serbia.

H. F. AbuTarboush, D. Budimir, R. Nilavalan and H. S. Al-Raweshidy, Wide-Band Planar Inverted-F Antenna for Cognitive Radio, *European Microwave Conference*, 28 September – 2 October, 2009, Roma, Italy.

L. Athukorala, D. Budimir, "Frequency Tunable Microstrip Resonators and Filters", *European Microwave Conference*, 28 September – 2 October, 2009, Roma, Italy.

D. Draskovic, C. Panagamuwa, D. Budimir, and J. C. Vardaxoglou, "Frequency Switchable Dual-Band Branch-Line Couplers", *European Microwave Conference*, 28 September – 2 October, 2009, Roma, Italy.

[20] D. Zayniyev, H. F. AbuTarboush, D. Budimir, "Microstrip Antenna Diplexers for Wireless Communications", *European Microwave Conference*, 28 September – 2 October 2009, Roma, Italy.

D. Bondar and D. Budimir, A New Digital Predistortion for Linearity Improvement and Suppression of Memory Effects, *European Microwave Conference*, 28 September – 2 October, 2009, Roma, Italy.

D. Bondar, D. Budimir, and B. Shelkovnikov, "Distortion components iterative injection technique for linearization of power amplifiers," in Proc. *19th International Crimean Conference "Microwave & Telecommunication Technology," CRIMICO'2009*, 14-18 September 2009, Sevastopol, Ukraine

H. F. AbuTarboush, R. Nilavalan, D. Budimir and H. S. Al-Raweshidy "Design of Planer Inverted-F Antennas for Multiband Wireless applications", *IEEE International Conference on Electromagnetics in Advanced Applications (ICEAA 09)*, Torino, Italy, September 14 -18, 2009.

D. Draskovic, and D. Budimir, Quad-Band Power Dividers with Generalized NRI Transmission Lines, *IEEE Antennas and Propagation Society International Symposium (APS'2009)*, Charleston, South Carolina, USA, June 1-5, 2009

D. Draskovic, and D. Budimir, "Varactor Tuned Dual-Band Wilkinson Power Divider", *IEEE Antennas and Propagation Society International Symposium (APS'2009)*, Charleston, South Carolina, USA, June 1-5, 2009

O. Glubokov , D. Budimir, "Substrate Integrated Folded-Waveguide Cross-Coupled Filter with Negative Coupling Structure" , *IEEE Antennas and Propagation Society International Symposium (APS'2009)*, Charleston, South Carolina, USA, June 1-5, 2009

D. Zayniyev, and D. Budimir , Compact Microstrip Dual-Band Pseudo-Interdigital Stepped Impedance Bandpass Filters for Wireless Applications, *IEEE Antennas and Propagation Society International Symposium (APS'2009)*, Charleston, South Carolina, USA, June 1-5, 2009

N. Suntheralingam and D. Budimir, "Compact S-shaped Resonator Loaded Waveguide Bandpass Filters", *IEEE Antennas and Propagation Society International Symposium (APS'2009)*, Charleston, South Carolina, USA, June 1-5, 2009

H. F. AbuTarboush, R. Nilavalan, D. Budimir and H. S. Al-Raweshidy "Compact Planar Inverted-F Antenna (PIFA) for WiMAX Application, *IEEE Antennas and Propagation Society International Symposium (APS'2009)*, Charleston, South Carolina, USA, June 1-5, 2009

D. Budimir and O. Glubokov, "Waveguide Structures and Filters for Millimetre-wave Applications", *5th ESA Workshop on Millimetre Wave Technology and Applications & 31st ESA Antenna Workshop*, 18-20 May 2009, ESA/ESTEC

D. Bondar, and D. Budimir, "Distortion Improvement of Power Amplifiers with Digital Predistortion", 2009 IEEE Wireless & Microwave Conference (WAMICON), 20-21 April, 2009 – Clearwater, Florida, USA.

D. Zayniyev, and D. Budimir, "Compact Microstrip Pseudo-Interdigital Stepped Impedance Bandpass Filters with Improved Stopband Performance", 2009 IEEE Wireless & Microwave Conference (WAMICON), 20-21 April, 2009 – Clearwater, Florida, USA.

O. Glubokov and D. Budimir, "Compact Quasi-Ridged Substrate Integrated Resonators on LCP Substrate", 2009 IEEE Wireless & Microwave Conference (WAMICON), 20-21 April, 2009 – Clearwater, Florida, USA.

D. Zayniyev, and D. Budimir, "An Integrated Antenna-Filter with Harmonic Rejection", *European Conference on Antennas and Propagation*, Berlin, March 2009.

D. Draskovic, and D. Budimir, "Optically Controlled Negative refractive Index Transmission Lines", *European Conference on Antennas and Propagation*, Berlin, March 2009.

O. Glubokov and D. Budimir, "Compact CSRR-loaded Substrate Integrated Waveguide Resonators on LCP Substrate", *European Conference on Antennas and Propagation*, Berlin, Germany, 23-27 March 2009.

D. Bondar, and D. Budimir, "Digital Baseband Predistortion of Wideband Power Amplifiers with Improved Memory Effects", "IEEE Radio and Wireless Symposium" RWS'2009, 19-22 January 2009, San Diego, USA.

M. Borenović, L. Zezelj, A. Neskovic, and D. Budimir, Simulation and comparison of WiMAX propagation Models, ETRAN Conference for Electronics, Telecommunications, Computers, Automatic Control and Nuclear Engineering, Vrnjacka Banja, Serbia, June 2009

[1] D. Bondar, N. Perisic, M. Vaskovic, and D. Budimir, Signal Processing Technique for Compensation of Nonlinear Distortion, *ETRAN Conference for Electronics, Telecommunications, Computers, Automatic Control and Nuclear Engineering*, Vrnjacka Banja, Serbia, June 2009

Year 2008: [17]

[17] O. Glubokov, D. Budimir and B. Shelkovnikov, "Novel compact substrate integrated waveguide resonators at 60 GHz for LCP", *Microwave & Telecommunication Technology*, 2008. CriMiCo 2008, Sevastopol, Ukraine.

D. Bondar and D. Budimir ,Spectrum Regrowth Reduction in Power Amplifiers using Digital Baseband Signal Injection", *Asia Pacific Microwave Conference (APMC'2008)*, Hong Kong, 15-19 December 2008.

O. Globokov and D. Budimir, "Compact Substrate Integrated Waveguide Resonators on LCP Substrate for mm-wave Wireless Systems", *Asia Pacific Microwave Conference (APMC'2008)*, Hong Kong, 15-19 December 2008.

N. Suntheralingam, and D. Budimir, "Compact Waveguide Bandpass Filters with Enhanced Stopband Performance", *Asia Pacific Microwave Conference (APMC'2008)*, Hong Kong, 15 – 19 December 2008.

D. Budimir and L. Athukorala, "Miniaturized Filters and Diplexers for Wireless Broadband Communication Systems", *Asia Pacific Microwave Conference (APMC'2008)*, Hong Kong, 15 – 19 December 2008.

D. Draskovic, and D. Budimir , "Optically Reconfigurable Matching Networks", *IEEE International Microwave Photonics Conference and the Asia-Pacific Microwave Photonics Conference (MWP2008/APMP2008)*, Gold Coast, Australia, October, 29 Sept. – 3. Oct. 2008.

D. Budimir, L. Athukorala and G. Zouganidis, "Optically Switchable Microstrip Resonators for RF/Microwave Multifunctional Systems", *IEEE International Microwave Photonics Conference and the Asia-Pacific Microwave Photonics Conference (MWP2008/APMP2008)*, Gold Coast, Australia, 29 Sept. – 3 October, 2008.

[10] M. Borenović, Milos Borenovic, Aleksandar Neskovic, D. Budimir, and Lara Zezelj, "Utilizing Artificial Neural Networks for WLAN Positioning," *International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'2008)*, 15-18 September 2008, Cannes, France.

D. Bondar, D. Budimir, B. Shelkovnikov, "Linearization of power amplifiers by baseband digital predistortion for OFDM transmitters", *18th International Crimean Conference "Microwave & Telecommunication Technology" CRIMICO'2008*, 8-12 September 2008, Sevastopol, Ukraine.

D. Bondar, D. Budimir, B. Shelkovnikov, "A new approach for non-linear analysis of power amplifiers", *18th International Crimean Conference "Microwave & Telecommunication Technology" CRIMICO'2008*, 8-12 September 2008, Sevastopol, Ukraine.

D. Bondar, D. Budimir, B. Shelkovnikov, "Minimizing memory effects in OFDM transmitters using adaptive baseband equalization", *18th International Crimean Conference "Microwave & Telecommunication Technology" CRIMICO'2008*, 8-12 September 2008, Sevastopol, Ukraine.

D. Draskovic, and D. Budimir, "An Optically Reconfigurable Dual-Band Branch-Line Coupler with Artificial Transmission Lines", *IEEE Antennas and Propagation Society International Symposium*, San Diego, USA, July 5-11, 2008

D. Zayniyev, and D. Budimir, "Microstrip Three-Port 4-Channel Multiplexers Using Dual-Band Bandpass Filters for Wireless Applications", *IEEE Antennas and Propagation Society International Symposium*, San Diego, USA, July 5-11, 2008

N. Suntheralingam and D. Budimir, "Novel Folded SRR-Loaded Waveguide Bandpass Filters", *IEEE Antennas and Propagation Society International Symposium*, San Diego, USA, July 5-11, 2008

D. Budimir and L. Athukorala, "Miniaturised Microstrip Diplexers for WiMAX Applications", *IEEE Antennas and Propagation Society International Symposium*, San Diego, USA, July 5-11, 2008

O. Globokov and D. Budimir, "Compact Multilayer SRR-Loaded Integrated Waveguide Filters on Liquid Crystal Polymer Substrate", *IEEE Antennas and Propagation Society International Symposium*, San Diego, USA, July 5-11, 2008

[1] D. Budimir and A. Marincic, "Tesla's Multi-frequency Wireless Radio Controlled Vessel", IEEE History of Electrotechnology Conference (HISTELCON 2008), Paris, France, 11-12 September 2008.

Г.1.3.1 Радови саопштени на конференцијама (1992 - 2007) [130]

2007: [15]

[130] D. Draskovic, D. Zayniyev, and D. Budimir, Microstrip Patch Antennas with Harmonic Rejection Using Composite Right-Left Handed Transmission Lines, *IEEE Antennas and Propagation Society International Symposium*, Honolulu, Hawaii, USA, June 10-15, 2007

D. Zayniyev, D. Budimir, and G. Zouganidis, Microstrip Filters and Diplexers for WiMAX Applications, *IEEE Antennas and Propagation Society International Symposium*, Honolulu, Hawaii, USA, June 10-15, 2007

N. Suntheralingam, D. Budimir, and F. Kamal, Waveguide Filters Based on Conventional and Complementary Split Ring Resonators for Microwave and Millimetre-Wave Wireless Applications, *IEEE Antennas and Propagation Society International Symposium*, Honolulu, Hawaii, USA, June 10-15, 2007

D. Draskovic, and D. Budimir, A Dual-Band 6-Port Quasi-Composite Right-Left Handed Branch-Line Coupler, *IEEE Antennas and Propagation Society International Symposium*, Honolulu, Hawaii, USA, June 10-15, 2007

D. Draskovic and D. Budimir, "Composite right/left handed coupler and its application to WiMAX Power Amplifiers", First International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2007), Roma, Italy, 22-26 October 2007.

D. Budimir, "Millimeter-wave Filters for Wireless Communications and Radar Applications-An Overview", The 6th International Kharkov Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves (MSMW'07), Kharkov, Ukraina, 25-30 June, 2007.

D. Budimir, "RF, Microwave and Millimtere wave Systems and Technologies", *IET Seminar on University Research in RF and Microwaves*, September 25, 2007, Birmingham, UK

N. Suntheralingam, A. Shelkovnikov, and D. Budimir, "Novel Millimetre Wave Metawaveguide Resonators and Filters", 37th EuMC European Microwave Conference, Munich, Germany, 8 – 12 October 2007.

D. Budimir and F. Kamal, "Novel Metawaveguide Bandpass Filters", *European Conference on Antennas and Propagation*, November 11-16, 2007, Edinburgh, UK.

N. Suntheralingam and D. Budimir, "Substrate Integrated Non-Radiative Dielectric Waveguide Resonators for Millimeter-wave Applications", *European Conference on Antennas and Propagation*, November 11-16, 2007, Edinburgh, UK.

D. Draskovic and D. Budimir, "Optically Reconfigurable Dual-Band Compact Branch-Line Coupler", *European Conference on Antennas and Propagation*, November 11-16, 2007, Edinburgh, UK.

H. Koulouzis, D. Draskovic and D. Budimir, "Design of LDMOS Balanced Power Amplifiers with Improved IMD Performance and Size-Reduction ", Asia Pacific Microwave Conference (APMC 2007), Bangkok, Thailand, 11 – 14 December 2007.

A. Shelkovnikov, D. Budimir and N. Suntheralingam, " Compact SRR Loaded Waveguide Bandpass Filters", 11th International Symposium on Microwave and Optical Technology (ISMOT-2007), Roma, Italy, 17 – 21 December 2007.

D. Zayniyev, D. Budimir and G. Zouganelis, "Super Compact Microstrip Pseudo Interdigital Bandpass Filters", 11th International Symposium on Microwave and Optical Technology (ISMOT-2007), Roma, Italy, 17 – 21 December 2007.

D. Bondar, and D. Budimir, "WiMax Power Amplifier Linearisation Through Injection of Base-Band Component", 11th International Symposium on Microwave and Optical Technology (ISMOT-2007), Roma, Italy, 17 – 21 December 2007.

2006: [10]

[115] D. Budimir, N. Suntheralingam, and F. Kamel "Metawaveguide Resonator Structures for Millimetre Wave Application", *IET Seminar on MM-wave Products and Technology*, November 16, 2006, London, UK.

A. Shelkovnikov and D. Budimir, " Compact SRR Loaded Waveguide Diplexers", *European Conference on Antennas and Propagation*, November 6 - 10, 2006, Nice, France.

D. Budimir and N. Suntheralingam, " Novel S-Shaped SRR Loaded E-plane Waveguide Resonators", *European Conference on Antennas and Propagation*, November 6 - 10, 2006, Nice, France.

H. Koulouzis and D. Budimir, " LDMOS Power Amplifiers with CRLH Combiners for LINC Transmitters", 36th *European Microwave Conference*, September 10 - 15, 2006, Manchester, UK

A. Shelkovnikov, N. Suntheralingam, and D. Budimir, "Novel SRR Loaded Waveguide Bandstop Filters", *IEEE AP-S International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting*, July 9-14, 2006, Albuquerque, New Mexico, USA.

[110] H. Koulouzis and D. Budimir, "Composite Right/Left Handed Combiners for LINC Transmitters", 15th IST Mobile and Wireless Summit, June 4 – 8, 2006, Myconos, Greece

H. Koulouzis and D. Budimir, " Distortion Correction of LDMOS Power Amplifiers using Hybrid RF Second Harmonic Injection/Digital Predistortion Linearization", 13th IEEE Mediterranean Electrotechnical Conference MELECON2006, Malaga, Spain, May 16 – 19, 2006.

D. Budimir and H. Koulouzis, " RF Power Amplifiers and Comline Filters for Wireless Base Stations", 13th International Conference on Telecommunications ICT2006, Funchal, Portugal, May 9 - 12, 2006.

G. Zouganelis and D. Budimir, "New Electromagnetic Resonators and Filters Based in Periodicity of Magnetic Permeability", *IEEE MMA Conference*, 2006.

D. Budimir and A. Marincic, "Research Activities and Future Trends of Microwave Wireless Power Transmission", 6th *International Symposium Nikola Tesla*, 18-20, October 2006, Belgrade, Serbia.

2005: [10]

[105] A. Shelkovnikov and D. Budimir, " Novel Bandpass Filters in Planar Form for Microwave Communication Systems", *Postgraduate Research Conference in Electronics, Photonics, Communications & Networks, and Computing Science (PREP'05)*, 29 March - 01 April, 2005, University of Lancaster, UK.

A. Shelkovnikov and D. Budimir, " Left Handed Rectangular Waveguide Resonator Structures", *IEEE Workshop on Metamaterials for Microwave and Optical Technologies*, July 18-20, 2005, San Sebastián and Pamplona, Spain

G. Shen and D. Budimir, " Coupling Coefficients of Comline Resonators", *IEEE International Microwave and Optoelectronics Conference (IMOC2005)*, July 25-28, 2005, Brasilia, Brazil.

H. Koulouzis and D. Budimir, " Digital Predistortion of Power Amplifiers for Multichannel Wireless Systems", IEEE International Microwave and Optoelectronics Conference (IMOC2005), July 25-28, 2005, Brasilia, Brazil.

H. Koulouzis and D. Budimir, " Distortion Correction of LDMOS RF Power Amplifiers Using Digital Predistortion ", *IEEE Mediterranean Microwave Symposium (MMS2005)*, Athens, Greece, September 6-8, 2005.

[100] G. Shen and D. Budimir, "Novel Comline Resonator Structures", *IEEE Mediterranean Microwave Symposium*, Athens, Greece, September 6-8, 2005.

A. Shelkovnikov and D. Budimir, " Novel Compact EBG Waveguide Resonators in Planar Form", 35th European Microwave Conference, October 3-7, 2005, Paris, France.

V. Crnojevic-Bengin and D. Budimir, " Novel Compact Resonators with Multiple 2-D Hilbert Fractal Curves", 35th European Microwave Conference, Paris, France, October 3-7, 2005, Paris, France.

A. Shelkovnikov and D. Budimir, " Miniaturazation of Metamaterials – Based Waveguide Structures", *15th IEEE International Crimean Microwave Conference (CRIMICO'2005)*, September 12 – 16, 2005, Sevastopol, Ukraine.

H. Koulouzis and D. Budimir, " Digital Predistortion of Power Amplifiers for Multichannel Wireless Systems", International Telecommunication Forum TELFOR 2005, Belgrade, Serbia and Montenegro, November 22 – 24, 2005

2004: [9]

[95] G. Shen and D. Budimir, "Bandpass Filters Using Periodically Loaded Comline Resonators", *IEEE Asia Pacific Microwave Conference*, December 15-18, 2004, New Delhi, India.

G. Shen and D. Budimir, "Dielectric Comline Resonators", *IEEE Asia Pacific Microwave Conference*, December 15-18, 2004, New Delhi, India.

A. Shelkovnikov and D. Budimir, "Novel E-plane Filters and Diplexers Using Rectangular Waveguide in Planar Form", *IEEE Asia Pacific Microwave Conference*, December 15-18, 2004, New Delhi, India.

V. Crnojevic-Bengin and D. Budimir, "Novel Microstrip Resonators with Embedded 3D Curves ", *IEEE Asia Pacific Microwave Conference*, December 15-18, 2004, New Delhi, India

D. Budimir, H. Koulouzis and K. Williams, " LDMOS RF Power Amplifiers with Improved IMD Performance", *34th European Microwave Conference*, October 12-14, 2004, Amsterdam, The Netherlands.

[90] A. Shelkovnikov and D. Budimir," Rectangular Waveguide Resonators in Planar Form for Filter Applications", *IEEE AP-S International Symposium on Antennas and Propagation and USNC/URSI National Radio Science Meeting*, June 20-26, 2004, Monterey, CA, USA.

G. Goussetis, A. P. Feresidis, D. Budimir, and J.C. Vardaxoglou " A 3rd Order Ridge Waveguide Filter with Parallel Coupled Resonators", *IEEE MTT-S International Microwave Symposium*, pp., June 6-11, 2004., Fort Worth, Texas, USA.

A. Shelkovnikov, and D. Budimir, "Electromagnetic Modelling of Novel E-plane Diplexers", *Postgraduate Research Conference in Electronics, Photonics, Communications & Networks, and Computing Science (PREP'04)*, 5-7, April, 2004, University of Hertfordshire, UK.

H. Koulouzis and D. Budimir, "Design of High Efficiency LDMOS Power Amplifiers", *Postgraduate Research Conference in Electronics, Photonics, Communications & Networks, and Computing Science (PREP'04)*, 5-7, April, 2004, University of Hertfordshire, UK.

2003: [14]

[86] Lalehparvar, L, H. Koulouzis, and D. Budimir, "Electromagnetic modelling of Planar Rectangular Waveguide Resonator Structures, *EPSRC PREP'2003 conference*, April, 2003, University of Exeter.

V. Crnojevic-Bengin, and D. Budimir, "Thick Film Technology and Lowpass Filter Design", *Mediterranean Microwave Symposium*, 6-8, May 2003, Cairo, Egypt.

G. Goussetis, and D. Budimir, " Compact Ridged Waveguide Filters with Improved Stopband Performance", *IEEE MTT-S International Microwave Symposium*, pp.953-956, June 8-13, 2003, Philadelphia, USA

G. Shen and D. Budimir, "Novel Comline Resonator Structurs for Wireless Systems", *7th WSEAS International Multiconference on Circuits, Systems, Communications and Computers*, July 7-10, 2003, Corfu Island, Greece..

G. Shen and D. Budimir, "High-Q Dielectric Comline Resonator with wide Spurious Free Performance, *IEEE International Microwave and Optoelectronics Conference*, September 20-23, 2003, Iguazu Falls, Brazil

D. Budimir, N. Males-Ilic, B. Milovanovic, and M. Tomic, "Linearization of Multichannel Amplifiers with the Injection of Second Harmonics into the Amplifier and Predistortion Circuit", *6th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, pp. 214-217, October, 1-3, 2003, Nis, Serbia & Montenegro.

V. Crnojevic-Bengin, and D. Budimir, "Design of Thick Film Lowpass Filters", *6th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, 1-3, October, 2003, Nis, Serbia & Montenegro.

N. Males-Ilic, B. Milovanovic, and D. Budimir, "Linearization Technique for Reducing Third and Fifth Order Intermodulation Distortion Products in Multichannel Amplifiers", *33rd European Microwave Conference*, October 6-10, 2003, Munich, Germany.

[78] G. Goussetis, A. Shelkovnikov, and D. Budimir, " Ridged Waveguide Manifold Multiplexers with Improved Performance", *33rd European Microwave Conference*, October 6-10, 2003, Munich, Germany.

G. Shen and D. Budimir, " A High-Q Multilayer Layers Comline Resonators", *IEEE Asia Pacific Microwave Conference*, November 4-7, 2003, Seoul, Korea.

A. Shelkovnikov, and D. Budimir, " Novel Waveguide E-plane Bandpass Filters planar Form", *IEEE Asia Pacific Microwave Conference*, Vol. 1. pp.417-419, November 4-7, 2003, Seoul, Korea.

V. Crnojevic-Bengin, and D. Budimir, "End Coupled Thick Film Microstrip Resonators with Periodical Slot Loading", *11th Telecommunication Forum TELFOR'2003*, November, 2003, Belgrade, Serbia and Montenegro.

H. Koulouzis, L. lalehparvar and D. Budimir, "Waveguide Resonators in Planar Form for Filter and Oscillator Applications", *11th International IEEE Symposium on Electron Devices for Microwave and Optical Applications EDMO'2003*, 17-18, November, 2003, Orlando, Florida, USA.

A. Shelkovnikov, B. N. Skalinkovich, and D. Budimir, "Broadband Wireless Access Systems", *11th Telecommunication Forum TELFOR'2003*, November, 2003, Belgrade, Serbia and Montenegro.

2002: [11]

[72] D. Budimir, L. Lalehparvar, and N. Nikolic," Design of Generalized Chebyshev Lumped Element Filters by Computer Optimisation", *11th IEEE Mediterian Electrotechnical Conference*, May 7-9, 2002, Cairo, Egypt.

D. Budimir, N. Males-Ilic, and B. Milovanovic, " Design of Low Intermodulation Amplifiers for Wireless Multichannel Applications", *Mediterranean Microwave Symposium*, pp.13-16, June 26-28, 2002, Cáceres, Spain

D. Budimir, G. Shen and G. Goussetis, " CAD of RF and Microwave Filters for Wireless Communications", *1st IEEE International Conference on Circuits and Systems for Communications*, June 26-28, 2002, St.Petersburg, Russia.

D. Budimir, N. Nikolic and G. Shen, "Dielectric Resonators for Mobile Communication Applications", *6th WSEAS International Multiconference on Circuits, Systems, Communications and Computers*, pp. 476-479, July 7-14, 2002, Rethymno, Crete Island, Greece..

G. Shen, G. Zouganidis, D. Budimir, A. Kan, H. Ogawa and H. Ohsato, " Microwave Dielectric Properties of R_2BAZNO_5 ($R=EU, GD, DY, HO, ER, TM$) AND $EU_2BAZN_{0.75}CU_{0.25}O_5$ Compounds Using a Microwave Resonator Cavity ", *Proc. of Microwave Materials and Their Applications Conference, 1-3 September 2002, York, UK.*

D. Budimir, and G. Goussetis, " Optimisation of Asymmetrical Bandpass Filters", *32nd European Microwave Conference, 23-27 September, 2002, Milan, Italy.*

G. Goussetis, and D. Budimir, " Antenna Filters for Wireless Telecommunication Systems", *32nd European Microwave Conference, 23-27 September, 2002, Milan, Italy.*

G. Goussetis, and D. Budimir, " Integration of Lowpass Filters in Bandpass Filters for Stopband Improvement", *32nd European Microwave Conference, 23-27 September, 2002, Milan, Italy.*

N. Males-Ilic, B. Milovanovic, and D. Budimir, " Amplifiers with Improved IMD Performance for Multi-channel Wireless Systems", *32nd European Microwave Conference, 23-27 September, 2002, Milan, Italy.*

G. Shen and D. Budimir, " Novel Resonator Structures for Comline Filter Applications", *32nd European Microwave Conference, 23-27 September, 2002, Milan, Italy.*

N. Males-Ilic, B. Milovanovic, and D. Budimir, " Diminished Sensitivity to Phase Variation in Injected Second Harmonic Linearization Technique for Multichannel Amplifiers", *IEEE Asia Pacific Microwave Conference, 19-22 November, 2002, Kyoto, Japan.*

2001: [18]

[61] L. Lalehparvar, and D. Budimir, "Electromagnetic Modelling of Rectangular Waveguide Structures on GaAs Substrate for MMICs, *7th International Symposium on Recent Advances in Microwave Technology*, June 19-23, 2001, Montreal, Canada.

L. Lalehparvar, and D. Budimir, "Electromagnetic modelling of Multilayer CPW on GaAs Substrate for MMICs, *IEEE International Microwave and Optoelectronics Conference*, Belem, August 06- 10, 2001, Brazil.

G. Goussetis and D. Budimir, "Electromagnetic Analysis and Design of Ridged waveguide T-junctions for Multiplexer Applications, *International Conference on Electromagnetics in Advanced Applications*, September 10-14, 2001, Torino, Italy.

B. N. Skalinkovich B, A. B. Skalinkovich and D. Budimir, "Software for Wireless Broadband System Design", *11th IEEE International Crimean Microwave Conference "Microwave and Telecommunicatio Technolog"*, September 10-14, 2001, Sevastopol, Crimea, Ukraine.

D. Budimir, "Periodic Waveguide Resonators and Filters", *11th IEEE International Crimean Microwave Conference "Microwave and Telecommunicatio Technology"*, September 10-14, 2001, Sevastopol, Crimea, Ukraine.

D. Budimir and B. N. Skalinkovich, "CAD for Wireless Broadband Access Design", *5th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, September 19-21, 2001, Nis, Yugoslavia.

B. N. Skalinkovich, and D. Budimir, "CAD for CATV Design", *5th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, September 19-21, 2001, Nis, Yugoslavia.

N. Males-Ilic, B. Milovanovic, and D. Budimir, " A multicarrier Amplifier Design Linearized Through Second Harmonics and Second Order IM Feedback", *5th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, September 19-21, 2001, Nis, Yugoslavia.

N. Males-Ilic, B. Milovanovic, and D. Budimir, " Design of Low Intermodulation Amplifiers for Wireless Multichannel Applications", *31th European Microwave Conference*, pp. 347-351, September 24-29, 2001, London, UK.

G. Goussetis, and D. Budimir, " E-plane Double Ridge Waveguide Filters and Diplexers for Communication Systems", *31th European Microwave Conference*, September 24-29, 2001, London, UK.

G. Goussetis, and D. Budimir, " E-plane Manifold Multiplexers with Improved Bandwidth", *31th European Microwave Conference*, September 24-28, 2001, London, UK,

Budimir, "Amplifiers for RF and Microwave Multichannel Wireless Systems", *9th IEEE International Symposium on Electron Devices for Microwave and Optoelectronic Applications*, Vienna University of Technology, Vienna, Austria, 15-16 November, 2001

G. Goussetis, and D. Budimir, " Simple Tuning Procedure for Coupled-Resonator Filters", *IEEE Asia Pacific Microwave Conference*, pp. 531-534, December 3-6, 2001, Taipei, Taiwan, ROC.

N. Males-Ilic, B. Milovanovic, and D. Budimir, " Low Intermodulation Amplifiers for RF and Microwave Wireless Systems", *IEEE Asia Pacific Microwave Conference*, pp.984-987, December 3-6, 2001, Taipei, Taiwan, ROC.

L. Lalehparvar, and D. Budimir, " 3D Coplanar Waveguide Structures on GaAs/Si Substrate for MMIC Applications", *IEEE Asia Pacific Microwave Conference*, pp. 169-172, December 3-6, 2001, Taipei, Taiwan, ROC.

G. Shen and D. Budimir, "High-Q Resonators with Periodic Metallic Slots", *IEEE Asia Pacific Microwave Conference*, pp. 1108-1110, December 3-6, 2001, Taipei, Taiwan, ROC.

Gousetis, G, and D. Budimir, "Electromagnetic modelling of ridged waveguide, *EPSRC conference*, April 11-13, 2001, University of Keele, Keele, UK.

Lalehparvar, L, and D. Budimir, "Electromagnetic modelling of Multilayer CPW on GaAs Substrate for MMICs, *EPSRC conference*, April 11-13, 2001, University of Keele, Keele, UK.

2000: [9]

[43] O. A. Dobre and Budimir D., "The modeling of a flat Rayleigh fading mobile radio channel", *10th IEEE Mediterian Electrotechnical Conference*, May 29-31, 2000, Cyprus.

O. A. Dobre, D. Budimir, Random Number Generators for Radio Communications, *4th World Multiconference on Circuits, Systems, Communications and Computers*, Athens, Greece, July 10 – 15, 2000.

Budimir, D., "Low Intermodulation RF Amplifiers for MMDS Applications", *10th IEEE International Crimean Microwave Conference*, Sevastopol, Crimea, Ukraine, September 11-15, 2000.

Gousetis, G, and D. Budimir, "Ridged Waveguide Bandpass Filters for Terahertz Applications, *8th IEEE International Conference on Terahertz Electronics*, September 28-29, 2000, Darmstadt, Germany.

G. Goussetis, and D. Budimir, " Waveguide Filters with Improved Stopband Performance", *30th European Microwave Conference*, Paris, France, October 2-6, 2000.

G. Goussetis, and D. Budimir, "Bandpass Filters with Improved Stopband Performance, *IEEE Asia Pacific Microwave Conference*, Sydney, Australia, December 3-6, 2000.

N. Males-Ilic, D. Budimir, and V. Markovic, " An Amplifier Design for MMDS Application at 12GHz Using Neural Network Transistor Noise Model", *IEEE Asia Pacific Microwave Conference*, Sydney, Australia, December 3-6, 2000.

Gousetis, G, and D. Budimir, "Electromagnetic modelling of ridged waveguide, *EPSRC conference*, April 11-13, 2000, University of Nottingham, Nottingham, UK.

D. Budimir, G. Goussetis, V. Gusavac and G. Shen, "Waveguide Resonators and Filters", *IEE Colloquium on Microwave Filters and Multiplexers*, Savoy Place, London, UK, 28th November 2000.

1999: [10]

[34] Modeste. M., D.Budimir, M.R. Moazzam, and C. S. Aitchison, " Analysis and Practical Performance of a Difference Frequency technique for Improving the Multicarrier IMD Performance of RF Amplifiers", *1999 IEEE MTT-S International Topical Symposium on Technologies for Wireless Applications*, Vancouver, B.C., Canada, 21-24 February 1999.

Budimir, D., "Passive and Active Component Design for Mobile and Satellite Communication Systems ", *29th ARMMS Conference Digest*, pp. 1-6, 22-23 April 1999, Bracknell, UK.

Budimir, D., "Electromagnetic Analysis and Design of Passive Components for Mobile Comunication Systems", *International Conference on Electromagnetics in Advanced Applications*, September 13-17, 1999, Torino, Italy.

Budimir, D., "Effective Design of Filters for Multipoint Video Distribution Systems", *4th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, October 13-15, 1999, Nis, Yugoslavia.

Budimir, D., B. Milovanovic, and V. Stankovic,"Broadband Wireless Systems and Components – An Overview", *4th IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, October 13-15, 1999, Nis, Yugoslavia.

K.Fu, and D. Budimir, " Electromagnetic Modelling and Design of Multilayer Coplanar Waveguide Lowpass Filters", *7th IEEE International Workshop on High Performance Electron Devices for Microwave and Optoelectronic Applications*, King's College, London, UK, 22-23 November, 1999.

Budimir, D., "Analysis and Design of Waveguide Filters and High-Q resonators by EPFIL code", *7th International Symposium on Recent Advances in Microwave Technology*, December 13-17, 1999, Malaga, Spain.

Modeste. M., D. Budimir, M.R. Moazzam, and C. S. Aitchison, "Multicarrier IMD Performance Improvement by Difference frequency Injection frequency", *IEEE High Frequency Postgraduate Student Colloquium*, University of Manchester, Manchester, UK, January 1999.

Budimir, D., "Filter Design Using Automatic Parameterisation of 3D Arbitrary Geometries", *IEE Colloquium on Effective Microwave CAD Tools*, Savoy Place, London, UK, 24 May 1999.

Tsirolidas, D., and D. Budimir, "Low Intermodulation Amplifier for PCS Applications", *IEEE High Frequency Postgraduate Student Colloquium*, University of Leeds, Leeds, UK, 17 September 1999.

1998: [6]

[24] Budimir, D., "CAD of Millimetre-wave Filters for Wireless Local Area Networks", *ESA Workshop on Millimetre-wave Technology and Applications: Antennas, Circuits and Systems*, Espoo, Finland, 27-29 May 1998.

D. Budimir, " Quarter-cut DR Bandpass Filters for Mobile Communication Base Stations", *IEEE International Conference on Telecommunications*, Porto Carras, Chalkidiki, Greece, June 21-25, 1998.

Budimir, D., "Design of Air-Filled Rectangular Waveguide Bandpass Filters by DBFILTER code for Terahertz Applications ", *The Sixth IEEE International Conference on Terahertz Electronics*, September 3-4, 1998, Leeds, United Kingdom.

Budimir, D., "Filter Design by DBFILTER code for point-to-point mm-wave Radio Links", *8th IEEE International Crimean Microwave Conference*, September 14-16, 1998. Crimea, Ukraine.

Budimir, D., "HBT Amplifiers on GaAs for Multilayer MMIC Applications", *IEEE Workshop on MMIC Design, Packaging and System Applications*, October 22-23, 1998, Freiburg, Germany.

Budimir, D., and C. W. Turner, "Noyel Planar Filter Structures for Millimetre-wave Applications", *IEEE Asia Pacific Microwave Conference*, Yokohama, Japan, December 8-11, 1998.

1997: [5]

Gokdemir, T., U. Karacaoglu, D. Budimir, S. B. Economides, A. H. Khalid, A. A. Rezazadeh, and I. D. Robertson, "Multilayer passive components for uniplanar Si/SiGe MMICs", *IEEE MTT-S International Microwave Symposium Digest*, Denver, CO, USA, June 1997.

Budimir, D., "E-plane Filters with Resonators of Different Cutoff Frequency", *3rd IEEE International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Systems*, Nis, Yugoslavia, October 1997.

Nesimoglu, T., D. Budimir, R. M. Moazzam and C. S. Aitchison, "Second Harmonic Injecting Technique for Low Intermodulation RF-Microwave Amplifiers", *IEEE High Frequency Postgraduate Student Colloquium*, University of Leeds, Leeds, UK, 19 September 1997.

Budimir, D., I. D. Robertson, A. H. Khalid and A. A. Rezazadeh, "Multilayer CPW Lowpass Filters on GaAs/Si MMICs", *IEEE International Colloquium on High Performance Electron Devices for Microwave and Optoelectronic Applications*, King's College, London, UK, 24 November, 1997

Budimir, D., G. Passiopoulos, and I. D. Robertson, "Filter Design by DBFILTER Code", *IEE Colloquium on Effective Microwave CAD*, Digest no:1997/094, Savoy Place, London, UK, 3 December 1997.

1996: [6]

Wang, Q. H., T. Gokdemir, D. Budimir, U. Karacaoglu, A. A. Rezazadeh and I. D. Robertson, "Fabrication and Microwave Characterisation of polyimide Multilayer Structures for MMIC Applications", *1996 International Conference on GaAs Manufacturing Technology*, April 28 – May 2 1996, San Diego, California, USA.

Budimir, D., I. D. Robertson, A. H. Khalid, and A. A. Rezazadeh, "Low Loss Multilayer Coplanar Waveguide Transmission Lines on Silicon Substrate for MMICs", *26th European Microwave Conference*, September 1996.

Gokdemir, T., U. Karacaoglu, D. Budimir, Q. H. Wang, A. A. Rezazadeh, and I. D. Robertson, "A comparison of miniature transmission-line media for multi-level MMICs", *26th European Microwave Conference*, September 1996.

Budimir, D., and I. D. Robertson, "EPSRC III-V Theme Day", Queen Elizabeth II Conference Centre, London, UK, 15 April 1996.

Budimir, D. and I. D. Robertson, "EPSRC ITeC", University of Leeds, Leeds, UK, 17-18 April 1996.

Warburton, P. A., K. K. M. Cheng, D. Budimir, I. D. Robertson and C. W. Turner, "Novel Coplanar Waveguide Transmission Lines for Microwave Circuits Employing High-Tc Superconductors", *IEE Colloquium on Superconductivity Microwave Components*, Digest No: 1996/094, Savoy Place, London, UK, April 1996.

1995: [1]

Lucyszyn, S., D. Budimir, and I.D. Robertson, "Design of Low-loss Monolithic Millimetre-wave Filters using Dielectric-filled Metal-pipe Rectangular Waveguides", *ESA/ESTEC Workshop*, November 1995.

1993: [4]

Budimir, D., V.Postoyalko & J.R.Richardson, "Design of Ridged Waveguide E-plane Bandpass Filters ", *18th International Conference on Infrared and Millimeter Waves*, pp.355-356, September 6-10, 1993, Colchester, Essex, UK.

Budimir, D., V.Postoyalko & J.R.Richardson, "Computer Aided Design of Asymmetric E-plane Bandpass Filters with Improved Stopband Performance ", *23rd European Microwave Conference*, pp.642-643 September 6-9 1993, Madrid, Spain.

Budimir, D.,V.Postoyalko & J.R.Richardson, "Asymmetric E-plane Bandpass Filters with Improved Stopband Performance", *IEE Colloquium on "Recent Advances in Microwave Sub-Systems for Space and Satellite Applications"*, Digest No:1993/062,pp.7/1-7/4, Savoy Place London, 18 March 1993.

Budimir, D.,V.Postoyalko & J.R.Richardson, "Optimized Ridged Waveguide E-plane Bandpass Filters ", *Tenth URSI National Radio Science Colloquium*, 5th-6th April 1993, University of Leeds, Leeds, UK.

1992: [2]

[2] Budimir, D., V. Postoyalko & J.R.Richardson, "Design of E-plane Bandpass Filters with Improved Stopband Performance by Optimization", *IEE Colloquium on "Filters in RF and Microwave Communications"*, Digest No:1992/220,pp.7/1-7/5, December 1992, University of Bradford, Bradford, UK.

[1] Budimir, D.,V.Postoyalko & J.R.Richardson, "Metallic Waveguide E-plane Bandpass Filters with Improved Stopband Performance", *Ninth URSI National Radio Science Colloquium*, 7th-8th July 1992, University of Bradford, Bradford, UK.

Г.1.4 Радови и предавања по позиву [20]:

- [1] D. Budimir, "CAD of General Filters for Modern Communication Systems", IEEE Invited Lecture, IEEE MTT/AP/ED Finland Chapter, Helsinki University, Finland, 29 May 1998.
- [2] D. Budimir, "Design of Microwave and Millimetre-wave Filters by DBFILTER code for Terrestrial and Satellite Communication Systems", Invited Presentation to Brunel University of West London, Uxbridge, UK, 29 January 1998.
- [3] D. Budimir, "Design of Microwave Filters for Modern Communication Systems", IEEE Invited Lecture, IEEE MTT Yugoslav Chapter, Institute of Microwave Techniques and Electronics, Belgrade, Yugoslavia, 17 June 1998.
- [4] Budimir, D., "RF and Microwave Filters for Communication Systems", Invited Presentation to National Technical University of Athens, Athens, Greece, 26 June 1998.
- [5] Budimir, D., "Microwave Filter Design", Invited Presentation to University of London, King's College, London, 31 June 1998.
- [6] D. Budimir, "Advanced Design of Microwave Circuits", IEEE Invited Lecture, IEEE MTT Beijing Section and IEE Beijing Centre, Tsinghua University (Beijing), China, 5 December 1998.
- [7] D. Budimir, "CAD of RF, Microwave and Millimetre-wave Circuits for Modern Digital Communication Systems", Invited paper, The 3rd RIEC International Symposium on Novel Techniques and Applications of Millimetre-Waves , Sendai International Centre, Sendai, Japan, December 14-15, 1998.
- [8] D. Budimir, "Advanced Design of Passive Components for Microwave Systems and Applications", Invited Lecture IEEE MTT/AP/EC Xian China Chapter, 4th Research Institute of Ministry of Posts and Telecommunications, Xian, China, 18 December 1998.
- [9] D. Budimir, "Wireless Broadband Systems and Technologies", 23 March 2007, University of Westminster, London, UK.
- [10] D. Budimir, "Microstrip Patch Antennas for RF Front-End of Wireless Communication", University of Belgrade, Belgrade, Serbia, Friday 20th April 2007.
- [11] D. Budimir, "Wireless Communication Systems and Technologies", 7th May 2007, University of Nis, Nis, Serbia.
- [12] D. Budimir, "WiMAX Wireless Broadband Access Systems", 10th May 2007, University of Belgrade, Belgrade, Serbia.
- [13] D. Budimir, "Mobile Radio Systems", University of Nis, Nis, Serbia, The Brain Gain Program (BGP), World University Service Austria, December 2008
- [14] D. Budimir, "Mobile and Wireless Communication Systems", University of Belgrade, Belgrade, Serbia, The Brain Gain Program (BGP), World University Service Austria, December 2009
- [15] D. Budimir, "Wireless System Design", University of Belgrade, Belgrade, Serbia, The Brain Gain Program (BGP), World University Service Austria, December 2010
- [16] D. Budimir and D. Bondar, Compensation of Nonlinear Distortion in RF Power Amplifiers for Wireless Communications, IEEE 19th Telecommunications Forum TELFOR 2011, 22-24 November 2011, Belgrade, Serbia.
- [17] D. Budimir, Recent Research Activities on Inkjet and 3D printed Electronics for 5G and the Internet of Things Applications, Keynote talk, 41st International Spring Seminar on Electronics Technology (ISSE 2018), Zlatibor, Serbia, 16 – 20 May, 2018
- [18] D. Budimir, Recent Research Activities on 5G Technology, Keynote talk, 17th International Symposium INFOTEH-JAHORINA, Jahorina, RS, B&H, 21 March 2018.
- [19] D. Budimir, An Overview of Research Activities in Wireless Technologies at Westminster University, IEEE Talk, Indian Institute of Technology, New Delhi, India, 16 January 2018.

- [20] D. Budimir, Wireless Technologies Evaluation Towards 5G, University of East Sarajevo, Sarajevo, B&H, 22 March 2017.

Г.2. Цитираност радова

Цитираност радова Ђурађ Будимира без аутоцитата свих коаутора обухвата 3086 цитата (извор: *Google Scholar*, 23 July 2025. године.)

Д. ПРОЈЕКТИ И СТУДИЈЕ

Д.1. Пројекти и студије у последњих пет година

Д.1. 1. Пројекти Министарства просвете, науке и технолошког развоја републике Србије

Др Ђурађ Будимир је учествовао у једном пројекту технолошког развоја Министарства просвете, науке и технолошког развоја у периоду 2011-2020:

„Алгоритми и софтвер за симулације у фреквенцијском и временском домену RF подсистема и електромагнетских сензора у ICT”, број пројекта: ТР32005.

Д.1. 2. Међународни пројекти

Др Ђурађ Будимир је учествовао, у једном међународном пројекту у периоду 2010-2015:

A 3-year EPSRC funded project, EPSRC Grant Reference: EP/X041395/1

Principal investigator: Prof. Djuradj Budimir

Project Title: All analogue full-duplex dual-receiver radio for wideband mm-wave communications

Start date: 01/03/2024

End Date 28/02/2027

European Commission: A 4-year European Project; EUROWEB: European Research and Educational Collaboration with Western Balkan, Grant Ref: 204625-1-2011-1-SE-EMA21, Start Month – End Month (Duration): 15 July 2011 – 14 July 2015

Subject: UGC - UKIERI 2016.

UK Lead Partner: Dr. Djuradj Budimir

Wireless Communications Research Group, School of Computer Science and Engineering, DCDI, University of Westminster

India Lead Partner: Dr. Ananjan Basu

Centre for Applied Research in Electronics, Indian Institute of Technology (IIT), Delhi, India

Project Title: Antenna Systems for 5G Applications

Start Date 01/04/2017

End Date 31/03/2021

Duration: 48 months

A 2-year EPSRC funded project, EPSRC Grant Reference: GR/M58634/01, “Waveguide Filters with Improved Stopband Performance and Novel Antenna Filters for Millimeter-wave Applications”, Principal investigator Prof. D. Budimir (University of Westminster).

Start Month – End Month (Duration): 04 May 1999 - 03 May 2001.

A 3-year EPSRC Case Studentship Award Reference: GR/00312760, “Novel 3D Multilayer Passive MIC and MMIC Components for Microwave and Millimeter-wave Applications”, Principal investigator Prof. D. Budimir (University of Westminster), Start Month – End Month (Duration): 09 Oct. 2000 – 08 Oct. 2003.

Б. ОСТАЛИ РЕЗУЛТАТИ, СТРУЧНЕ И ДРУШТВЕНЕ АКТИВНОСТИ

Б.1. Дужности на Електротехничком факултету Универзитета *Westminster* у Лондону, Велика Британија.

Др Ђурађ Будимир је обављао, или и даље обавља, следеће дужности на Електротехничком факултету Универзитета Westminster у Лондону:

- 1998- до данас: Шеф/руководилац WCRG групе,
- 2006 - 31. jula 2015: ECE Кластер координатор за истраживање.
- 2024 - до данас: Professors and Readers Awarding Committee Member.

Б.2. Активности у професионални удружењима

Др Ђурађ Будимир је, такође, активан и у професионалним асоцијацијама, и то:

Conferences Activities:

General co-chair

European Microwave Week (EuMW2021), 2021, London, UK

Local arrangements chair

European Microwave Week (EuMW2021), 2021, London, UK

Local arrangements co-chair

European Antenna and Propagation Conference (EuCAP2018), 2018, London, UK

Local arrangements co-chair

European Microwave Week (EuMW2016), 2016, London, UK.

Professional Society Memberships

2018- present *IEEE Technical Committee Member (TC-25/MTT 25)*

2002- *Senior Member of IEEE*

2002 - *Full Member of the IET*

Professional Society Activities

2011 - *Member of the IEEE Senior Member Review Panel*

European Union Network Activities

2011-2015 *EuroWeb*

Б.3. Стручовне активности

Кандидат је обављао, или и даље спроводи следеће стручовне активности:

Examiner/evaluator for inter/national research funding agencies,

National and International Funding Panel memberships and Proposal Evaluation and Participation:

Engineering and Physical Sciences Research Council (EPSRC),

Royal Academy of Engineering,

National Science and Engineering Research Council of Canada (NSERC),

British Council (UK-INDIA EDUCATION AND RESEARCH INITIATIVE),

KINGDOM OF SAUDI ARABIA, Ministry of Higher Education, (Research Proposal Evaluation/project proposal reviewer).

EU Horizon 2020 Contributor

University External Examiner/Reviewer

2015 South Bank London University (external examiner for "mid-cycle review").

International conference technical programme committee member: 35+

Journal editor: 2

Editorial Board Member:

Microwave Review is a publication of National Society for Microwave Technique, Technologies and Systems (ISSN 14505835)

Associate Editor, IET Electronics Letters.

Reviewer for book proposals: 2

John Wiley and Cambridge University Press.

Reviewer for international journals: 10

International conference session chairman: 22

Т.4. Награде и признања

2017 IET Best Poster Prize/Poster Award.

This year's recipient of the IET best poster paper prize was our PhD student Mr. Uros Jankovic for the following paper:

U. Jankovic, N. Mohottige and D. Budimir, Novel Hybrid Manufactured Waveguide Filters with 3D Printed Insert Dielectric, The 5th IET Enterprise Workshop RF in Aerospace Applications, 5 April 2017, London.

2016 IET Best Paper Prize.

2016: This year's recipient of the IET best paper prize is our PhD student Mr. Waqas Ahmad for the following paper:

Waqas Ahmad, Djuradj Budimir, "UWB Filtennas with Dual Bandnotch for WiMAX and WLAN Bands using Circular and Square Resonators", *Wireless Communications Research Group, University of Westminster, London, UK*, The IET seminar, 17 February 2016, London, UK.

2013 IET Best Student Poster Awards

IET RF and Microwave Technology Network has granted the Industrial awards sponsored by Emblation Ltd and IET to the authors of the best student posters presented at the 2nd IET Technical Enterprise Workshop on "Todays RF tomorrow's medicine" 'Poster Competition' on 27 February 2013 at Queen Mary College, University of London, London, UK. The competition panel assessed the quality of submitted abstracts, quality of the presentations at the workshop; actual contributions to knowledge; and handling the questions at the end of each presentation.

This year's two of five recipients are our MRes in Electronics student Uros Jankovic and PhD student Kasturi Chakrabarty for the following posters entitled.

K. Chakrabarty and D. Budimir, "Distortion Evaluation of Switchable Filter for Multi-Standard System", *IET Technical Enterprise Workshop*, 27th February 2013, Queen Mary College, London, UK.

U. Jankovic, N. Mohottige and D. Budimir, "Modelling of Dielectric-filled Waveguide Filtennas", *IET Technical Enterprise Workshop*, 27th February 2013, Queen Mary College, London, UK.

2012 Telenor Foundation "Ilija Stojanovic" Award

M. Borenović, A. Neskovac, and D. Budimir, "Space Partitioning Strategies for Indoor WLAN Positioning with Cascade-Connected ANN Structures", *International Journal of Neural Systems*, pp. 1-15, Vol.21, No. 1, 2011. and "Multi-System-Multi-Operator Localization in PLMN Using Neural Networks", *International Journal of Communication Systems*, Volume 25, Issue 2, pp: 67–83, February 2012.

Е. Приказ и оцена научног рада

Кандидат, др Ђурађ Будимир, публиковао је преко 390 радова из области радио технологија и бежичних подсистема и система. Са укупном цитирањем 3086 (извор: *Google scholar*, 23 July 2025.) од чега преко 97 у радовима са импакт фактором од којих је велики број у врхунским међународним часописима. Такође, презентовао је преко 20 радова по позиву на еминентним светским конференцијама из области радио технологија и бежичних подсистема и система. Према својим

досадашњим резултатима спада у високо рангиране светске научнике који су свој допринос дали развоју и реализацији треће, четврте и пете генерације мобилних радио система и уређаја за бежичне мреже. Због врло високе оцене његовог досадашњег научног и наставног рада, Катедра за Телекомуникације је предложила кандидата за гостујућег професора како би пренео своје знање и стечено искуство из области радио технологија и бежичних подсистема и система нашим колегама и студентима.

Ж. Оцена испуњености услова

Кандидат, др Ђурађ Будимир, испуњава све услове из Закона о високом образовању (члан 77), Статута Универзитета у Београду (члан 145), Статута Електротехничког факултета Универзитета у Београду (члан 118), као и Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду за избор у звање гостујућег професора.

3. Закључак и предлог

На основу свега претходно наведеног може се извући јасан закључак да кандидат, др Ђурађ Будимир, редовни професор Универзитета *Westminster* у Лондону, Велика Британија (*Wireless Communications Research Group, Faculty of Science and Technology, University of Westminster, UK*), испуњава све предуслове дефинисане законским и подзаконским актима за избор у звање гостујућег професора.

Др Ђурађ Будимир има докторат из области радио-фрејквенцијских филтара за радио-комуникационе линкове, публиковао је више од 390 радова из области радио технологија и бежичних подсистема и система, има 3086 цитата, показао је завидне резултате у настави на матичном факултету, као и научну препознатљивост из области радио технологија и бежичних подсистема и система на светском нивоу. Ови резултати су и условили да Катедра за Телекомуникације Електротехничког факултета Универзитета у Београду предложи кандидата др Ђурађ Будимира за гостујућег професора за област Телекомуникација (ужа област: радио технологије, бежични системи и мреже).

Кандидат, др Ђурађ Будимир, бивши је студент Електротехничког факултета и од дана дипломирања стално сарађује са колегама са Електротехничког факултета Универзитета у Београду. Од 2016. године у статусу је гостујућег професора на Електротехничком факултету Универзитета у Београду.

Полазећи од свеобухватне анализе научне, наставне и стручне активности др Ђурађ Будимира, квалитета његовог научног рада, препознатљивости из области радио технологија и бежичних подсистема и система на светском нивоу и жеље за ангажовањем и несебичним преношењем својих знања колегама и студентима у Србији, Комисија предлаже Изборном већу Електротехничког факултета Универзитета у Београду, Већу групације техничко-технолошких наука и Сенату Универзитета у Београду, да др Ђурађ Будимира изабере у звање гостујући професор.

Београд, 29.07.2025. године

ЧЛАНОВИ КОМИСИЈЕ



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