ИЗБОРНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА У БЕОГРАДУ

На основу нормативних докумената Универзитета у Београду и Електротехничког факултета у Београду, као редовни професор, подносим следећи петогодишњи

ИЗВЕШТАЈ

1. Биографски подаци

Дејан В. Тошић је рођен 8. фебруара 1957. године у Београду. Завршио је I београдску гимназију као носилац дипломе „Вук Караџић". Дипломирао је 1980. године на Електротехничком факултету Универзитета у Београду, на одсеку за Електронику, смер Телекомуникације (средња оцена 9,63, оцена на дипломском раду 10, средња оцена испита са смера 10). Као студенту који је у току школске 1979/80. године дипломирао са најбољим успехом на одсеку за Електронику, додељена му је награда из фонда проф. А. Дамјановића. У току студија био је студент-сарадник на предметима Теорија електричних кола и Електромагнетика.

Магистрирао је 1986. године на Електротехничком факултету у Београду, смер Микроталасна техника, са тезом под насловом „Прилог оптимизацији потискивања клатера у системима за издвајање покретних циљева". Средња оцена на испитима са магистарских студија је 10. Докторирао је 1996. године на Електротехничком факултету у Београду са дисертацијом под насловом „Прилог алгоритмима симболичке анализе линеарних електричних кола и система помоћу рачунара".

У сталном је радном односу, са пуним радним временом, на Електротехничком факултету у Београду.

Биран је у следећа звања на Електротехничком факултету Универзитета у Београду: асистент-приправник (1982), асистент (1987), доцент (1997), ванредни професор (2007), редовни професор (1.2.2012).

Сажети преглед изабраних резултата досадашњег рада је дат у следећој табели.

Резултат	Последњих 5 година	Последњих 10 година	Укупно у каријери
Радови у часописима са Thomson Reuters JCR Sci листе који имају Impact Factor	18 = 1*M21, 6*M22, 11*M23	29 = 3*M21, 12*M22,14*M23	37
Радови у осталим часописима	8	14	32
Радови на међународним скуповима	21	29	76
Радови на домаћим скуповима	7	15	78
Монографије и поглавља у монографијама	2 поглавља	1 монографија 3 поглавља	3 моногрфије 3 поглавља
Уџбеници и збирке	1 збирка	1 уџбеник 1 збирка	2 уџбеника 4 збирке
Комерцијални софтверски производ, техничко решење М81, дистрибуира Wolfram Research, Inc. USA	1	1	1

*Категоризација је узета у години објављивања рада.

2. Научно-стручна делатност

Радови објављени у целини у часописима са Thomson Reuters Journal Citation Reports (JCR) листе (радови који имају impact factor)

Радови обележени звездицом припадају петогодишњем периоду после избора у звање редовног професора.

*1. M. Potrebić, D. Tošić, D. Biolek, "Reconfigurable microwave filters using memristors", *International Journal of Circuit Theory and Applications*, 2017. doi: 10.1002/cta.2345 in press M22

*2. D. Biolek, Z. Kolka, V. Biolková, Z. Biolek, M. Potrebić, D. Tošić, "Modeling and simulation of large memristive networks", *International Journal of Circuit Theory and Applications*, 2017. doi: 10.1002/cta.2327 in press M22

*3. M. Mrvić, M. Potrebić, D. Tošić, "Compact E-plane waveguide filter with multiple stopbands", *Radio Science*, vol. 51, no. 12, pp. 1895–1904, Dec. 2016. doi: 10.1002/2016RS006169 M22

*4. S. Lj. Stefanovski Pajović, M. M. Potrebić, D. V. Tošić, Z. Ž. Cvetković, "Fabrication parameters affecting implementation of waveguide bandpass filter with complementary split-ring resonators", *Journal of Computational Electronics*, vol. 15, no. 4, pp. 1462–1472, Dec. 2016, doi: 10.1007/s10825-016-0909-z M22

*5. S. Stefanovski, M. Potrebić, D. Tošić, Z. Stamenković, "Compact dual-band bandpass waveguide filter with H-plane inserts", *Journal of Circuits, Systems, and Computers*, vol. 25, no. 3, pp. 1640015 (18 pages), 2016. doi: 10.1142/S0218126616400156 M23

*6. M. Andjelić, E. Andrade, D. M. Cardoso, C. M. da Fonseca, S. K. Simić, D. V. Tošić, "Some new considerations about double nested graphs", *Linear Algebra and its Applications*, vol. 483, pp. 323–341, Oct. 2015. M21
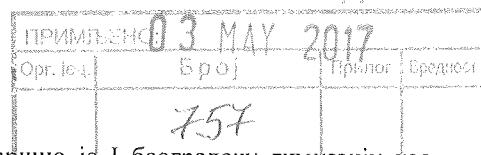
*7. M. Potrebić, D. Tošić, "Application of memristors in microwave passive circuits", *Radioengineering*, vol. 24, no. 2, pp. 408–419, June 2015. [online] http://www.radioeng.cz/papers/2015-2.htm M23

*8. D. A. Nešić, B. M. Kolundžija, D. V. Tošić, D. S. Jeremić, "Low-pass filter with deep and wide stop band and controllable rejection bandwidth", *International Journal of Microwave and Wireless Technologies*, vol. 7, no. 2, pp. 141–149, April 2015. M23

*9. S. V. Savić, A. Krneta, M. Stevanović, D. I. Olćan, M. Tasić, M. M. Ilić, D. Tošić, B. Kolundžija, A. R. Djordjević", Analytic solutions of electromagnetic fields in inhomogeneous media", *International Journal of Electrical Engineering Education*, vol. 52, no. 2, pp. 131–141, April 2015. M23

*10. D. Miljanović, M. Potrebić, D. V. Tošić, "Design of microwave multibandpass filters with quasilumped resonators", *Mathematical Problems in Engineering*, vol. 2015, Article ID 647302 (14 pages) 2015. doi:10.1155/2015/647302 [online] http://www.hindawi.com/journals/mpe/2015/647302/ M23

*11. S. Lj. Stefanovski, M. M. Potrebić, D. V. Tošić, "A novel design of E-plane bandstop waveguide filter using quarter-wave resonators", *Optoelectronics and Advanced Materials – Rapid Communications*, vol. 9, no. 1-2, pp. 87–93, Jan.-Feb. 2015. M23

*12. A. Djordjević, D. Tošić, M. Djurić-Jovičić, "A theorem on repeated filtering", *Journal of Circuits, Systems, and Computers*, vol. 23, no. 10, pp. 1450136 (11 pages), Dec. 2014. M23

*13. D. M. Miljanović, M. M. Potrebić, D. V. Tošić, Z. Stamenković, "Design of miniaturized bandpass filters using quasi-lumped multilayer resonators", *Journal of Circuits, Systems, and Computers*, vol. 23, no. 6, pp. 1450083 (21 pages), July 2014. M23

*14. S. Lj. Stefanovski, M. M. Potrebić, D. V. Tošić, "A novel design of dual-band bandstop waveguide filter using split ring resonators", *Journal of Optoelectronics and Advanced Materials*, vol. 16, no. 3-4, pp. 486–493, March-April 2014. M23

*15. A. R. Djordjević, D. V. Tošić, A. G. Zajić, M. M. Nikolić, D. I. Olćan, I. D. Jovanović, "Temporal leakage in analysis of electromagnetic systems", *IEEE Antennas and Propagation Magazine*, vol. 54, no. 6, pp. 92–101, Dec. 2012. M22

*16. D. Tošić, M. Potrebić, "Compact multilayer bandpass filter with modified hairpin resonators", *Journal of Microelectronics, Electronic Components and Materials*, vol. 42, no. 2, pp. 123–130, June 2012. M23

*17. M. M. Potrebić, D. V. Tošić, "A novel design of a compact multilayer resonator using double-sided microstrip", *Optoelectronics and Advanced Materials – Rapid Communications*, vol. 6, no. 3-4, pp. 441–445, Mar.-Apr. 2012. M23

*18. M. Andjelić, C. M. da Fonseca, S. K. Simić, and D. V. Tošić, "Connected graphs of fixed order and size with maximal Q-index: Some spectral bounds", *Discrete Applied Mathematics*, vol. 160, no. 4-5, pp. 448–459, March 2012. M22

19. D. V. Tošić, M. F. Hribšek, "Modelling and wave velocity calculation of multilayer structure SAW sensors", *Microelectronics International*, vol. 28, no. 2, pp. 3–7, 2011. ISSN: 1356-5362 M23

20. S. Li, S. K. Simić, D. V. Tošić, Q. Zhao, "On ordering bicyclic graphs with respect to the Laplacian spectral radius", *Applied Mathematics Letters*, vol. 24, no. 12, pp. 2186–2192, 2011. ISSN: 0893-9659 M21

21. M. Anđelić, C. M. da Fonseca, S. K. Simić, D. V. Tošić, "On bounds for the index of double nested graphs", *Linear Algebra and its Applications*, vol. 435, no. 10, pp. 2475–2490, 2011. ISSN: 0024-3795 M22

22. S. M. Perovich, D. V. Tošić, S. I. Bauk, Stevan Kordic, "On the exact analytical solutions of certain lambert transcendental equations", *Mathematical Problems in Engineering*, vol. 2011, Article ID 685485 (21 pages) 2011. ISSN: 1024-123X (Print), ISSN: 1563-5147 (Online), doi:10.1155/2011/685485 [online] http://www.hindawi.com/journals/mpe/2011/685485/ M22

23. M. M. Potrebić, D. V. Tošić, P. V. Pejović, "Understanding computation of impulse response in microwave software tools", *IEEE Transactions on Education*, vol. 53, no. 4, pp. 547–555, 2010. ISSN: 0018-9359 M22

24. A. Krapež, S. K. Simić, D. V. Tošić, "Parastrophically uncancellable quasigroup equations", *Aequationes Mathematicae*, vol. 79, no. 3, pp. 261–280, 2010. M21

25. S. K. Simić, F. Belardo, E. M. Li Marzi, D. V. Tošić, "Connected graphs of fixed order and size with maximal index: Some spectral bounds", *Linear Algebra and its Applications*, vol. 432, no. 9, pp. 2361–2372, 2010. ISSN: 0024-3795 M22

26. Z. Živković, M. Hribšek, D. Tošić, "Modeling of surface acoustic wave chemical vapor sensors", *Journal of Microelectronics, Electronic Components and Materials*, vol. 39, no. 2, pp. 111–117, 2009. ISSN: 0352-9045 M23

27. M. M. Potrebić, D. V. Tošić, "Selective bandpass filter with concentrated impulse response", *Microwave and Optical Technology Letters*, vol. 50, no. 11, pp. 2772–2777, 2008. ISSN: 0895-2477 M23

28. S. M. Perovich, S. K. Simić, D. V. Tošić, S. I. Bauk, "On the analytical solution of some families of transcendental equations", *Applied Mathematics Letters*, vol. 20, no. 5, pp. 493–498, 2007. ISSN: 0893-9659 M22

29. A. R. Djordjević, M. D. Djurić, D. V. Tošić, T. K. Sarkar, "On compact printed-circuit transmission lines", *Microwave and Optical Technology Letters*, vol. 49, no. 11, pp. 2706–2709, 2007. ISSN: 0895-2477 M22

30. M. D. Lutovac, D. V. Tošić, "Symbolic analysis and design of control systems using *Mathematica*", *International Journal of Control*, Special Issue on the Use of Computer Algebra Systems for Computer Aided Control System Design, vol. 79, no. 11, pp. 1368–1381, Nov. 2006. ISSN: 0020-7179 M22

31. S. K. Simić, D. V. Tošić, "The Index of Trees with Specified Maximum Degree", *MATCH Communications in Mathematical and in Computer Chemistry*, vol. 54, no. 2, pp. 351–362, 2005. ISSN: 0340-6253 M21

32. A. R. Djordjević, A. G. Zajić, D. V. Tošić, T. Hoang, "A Note on the Modeling of Transmission-Line Losses", *IEEE Transactions on Microwave Theory and Techniques*, vol. 51, no. 2, pp. 483–486, Feb. 2003. ISSN: 0018-9480 M21

33. S. M. Perovich, I. Djurović, D. V. Tošić, Reply to "Some Comments Concerning the Discrete Eigenvalue," *Nuclear Science and Engineering*, vol. 131, no. 3, pp. 439–441, Mar. 1999. ISSN: 0029-5639

34. I. A. Škokljev, D. V. Tošić, "A new symbolic analysis approach to the DC load flow method", *Electric Power System Research Journal*, vol. 40, pp. 127–135, 1997. ISSN: 0378-7796

35. A. R. Djordjević, B. D. Reljin, D. V. Tošić, T. K. Sarkar, "Transmission-line theory approach to solution of state equations for linear lumped circuits", *IEEE Transactions on Microwave Theory and Techniques*, vol. 44, no. 3, pp. 479–482, Mar. 1996. ISSN: 0018-9480

36. D. V. Tošić, M. F. Hribšek, B. D. Reljin, "Generation and design of new continuous-time second order gain equalizers using program SALEC", *International Journal of Electronics and Communications* (AEÜ - Archiv für Elektronik und Übertragungstechnik), vol. 50, no. 3, pp. 226–229, May 1996. ISSN: 0001-1096, (new ISSN: 1434-8411)

37. S. M. Perovich, D. V. Tošić, "Transcendental method in nonlinear circuit theory", *Electronics Letters*, vol. 32, no. 16, pp. 1433–1434, Aug. 1996. ISSN: 0013-5194

Пленарни рад по позиву, објављен у целини у зборнику радова, који је кандидат као предавач по позиву изложио на међународном научном скупу

D. V. Tošić, M. D. Lutovac, "Symbolic simulation of engineering systems", in *Proc. 4th IEEE European Conference on Circuits and Systems for Communications* (ECCSC'08), Politehnica University, Bucharest, Romania, July 10-11, 2008, plenary lecture, pp. 59–68, doi: 10.1109/ECCSC.2008.4611647, ISBN: 978-1-4244-2419-1

Радови објављени у целини у часописима међународног значаја

1. S. Stefanovski Pajović, M. Potrebić, D. Tošić, Z. Stamenković, "E-plane waveguide bandstop filter with double sided printed-circuit insert", *Facta Universitatis, Series: Electronics and Energetics*, vol. 30, no. 2, pp. 223–234, June 2017.

2. A. Djordjević, D. Olćan, M. Stojilović, M. Pavlović, B, Kolundžija, D. Tošić, "Causal models of electrically large and lossy dielectric bodies", invited paper, *Facta Universitatis*, vol. 27, no. 2, pp. 221–234, June 2014.

3. M. D. Lutovac, D. V. Tošić, "Elliptic rational functions", *The Mathematica Journal*, vol. 9, no. 3, pp. 598–608, 2005.

4. D. V. Tošić, M. D. Lutovac, "Symbolic analysis of digital filters", *Académie Roumaine, Revue Roumaine des Sciences Techniques*, Série Électrotechnique et Énergétique, Bucarest, vol. 42, no. 1, pp. 29–38, 1997.

5. D. V. Tošić, A. R. Djordjević, B. Reljin, "Symbolic analysis of linear microwave circuits", *Académie Roumaine, Revue Roumaine des Sciences Techniques*, Série Électrotechnique et Énergétique, Bucarest, vol. 42, no. 1, pp. 39–47, 1997.

6. M. D. Lutovac, D. V. Tošić, B. L. Evans, "Symbolic design and synthesis of digital IIR and analog filters", *Académie Roumaine, Revue Roumaine des Sciences Techniques*, Série Électrotechnique et Énergétique, Bucarest, vol. 42, no. 2, pp. 229–233, 1997.

7. D. V. Tošić, A. R. Djordjević, B. D. Reljin, "Symbolic Analysis of Microwave Circuits", *Journal of Applied Electromagnetism*, vol. 1, no. 1, pp. 37–45, 1997.

8. D. V. Tošić, B. D. Kovačević, B. D. Reljin, "Symbolic analysis of linear dynamic systems", *Control and Computers*, vol. 24, no. 2, pp. 54–59, 1996.

Радови саопштени на скуповима међународног значаја и објављени у целини у зборницима радова

Радови после избора у звање ред. проф. (21 рад)

1. M. Mrvić, M. Potrebić, D. Tošić, Z. Cvetković, "E-plane waveguide bandpass filter with improved stopband using quarter-wave resonators", in Proc. *XIII International Conference on Systems, Automatic Control and Measurements* (SAUM 2016), Niš, Serbia, Nov. 9–11, 2016, pp. 104–107.

2. D. Miljanović, M. Potrebić, D. V. Tošić, "Microwave bandpass filter with quasi-lumped elements", in Proc. *23rd Telecommunications Forum* (TELFOR 2015), Belgrade, Serbia, Nov. 24–26, 2015, pp. 551–558.

3. S. Stefanovski Pajović, M. Potrebić, D. V. Tošić, "Microwave bandpass and bandstop waveguide filters using printed-circuit discontinuities", in Proc. *23rd Telecommunications Forum* (TELFOR 2015), Belgrade, Serbia, 2015, pp. 520–527.

4. A. Plazinić, M. Potrebić, D. V. Tošić, "Circuit model of microwave dual-band bandpass filter", in Proc. *12th International Conference on Applied Electromagnetics* (ПЕС 2015), Niš, Serbia, Aug. 31–Sep. 02, 2015, pp. 81–82.

5. M. Mrvić, M. Potrebić, D. V. Tošić, Z. Cvetković, "Miniaturization of waveguide bandstop filter", in Proc. *12th International Conference on Applied Electromagnetics* (ПЕС 2015), Niš, Serbia, Aug. 31–Sep. 2, 2015, pp. 79–80.

6. S. Stefanovski, M. Potrebić, D. V. Tošić, Z. Stamenković,"A novel compact dual-band bandpass waveguide filter", in Proc. *IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits & Systems* (DDECS), Belgrade, Serbia, April 22–24, 2015, pp. 51–56. doi: 10.1109/DDECS.2015.37

7. M. Mrvić, M. Potrebić, D. Tošić, Z. Cvetković, "E-plane microwave resonator for realisation of waveguide filters", in Proc. *XII International SAUM Conference on Systems, Automatic Control and Measurements*, Niš, Nov. 12–14, 2014, pp. 205–208.

8. S. Stefanovski, M. Potrebić, D. Tošić, Z. Cvetković, "Bandstop waveguide filters with two or three rejection bands", in Proc. *29th Conference on Microelectronics* (MIEL 2014), Belgrade, Serbia, May 12–14, 2014, pp. 435–438.

9. S. Stefanovski, Đ. Mirković, M. Potrebić, D. Tošić, "Novel design of H-plane bandpass waveguide filters using complementary split ring resonators", in Proc. *Progress In Electromagnetics Research Symposium* (PIERS 2014), Guangzhou, China, August 25–28, 2014, pp. 1963–1968.

10. D. Miljanović, M. Potrebić, D. Tošić, "Zamjenske šeme spregnutih mikrotalasnih kvazi-koncentrisanih rezonatora", *Zbornik XIII međunarodnog naučno-stručnog simpozijuma INFOTEH-JAHORINA 2014*, Jahorina, Bosna i Hercegovina, Mart 19–21, 2014, vol. 13, str. 471–475.

11. S. Stefanovski, M. Potrebić, D. Tošić, "Structure for precise positioning of inserts in waveguide filters", in Proc. *21st Telecommunications Forum* (TELFOR 2013), Belgrade, Serbia, Nov. 26–28, 2013, pp. 689–692.

12. S. Grković, D. Miljanović, S. Stefanovski, M. Potrebić, D. Tošić, "WIPL-D modelovanje višeslojnog filtra sa interdigitalno spregnutim uvodnicima", in Proc. *21st Telecommunications Forum* (TELFOR 2013), Belgrade, Serbia, Nov. 26–28, 2013, pp. 900–903.

13. S. Stefanovski, M. Potrebić, D. Tošić, "Design and analysis of bandpass waveguide filters using novel complementary split ring resonators", in Proc. *11th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services* (TELSIKS 2013), Niš, Serbia, Oct. 16–19, 2013, pp. 257–260.

14. S. Stefanovski, M. Potrebić, D. Tošić, Z. Cvetković, "Design and analysis of bandstop waveguide filters using split ring resonators", in Proc. *11th International Conference on Applied Electromagnetics* (ПЕС 2013), Niš, Serbia, Sep. 1-4, 2013, pp. P2-17 1–4.

15. D. Miljanović, M. Potrebić, D. Tošić, "Mikrotalasni filtar realizovan u višeslojnoj tehnici sa kapacitivno spregnutim uvodnikom", Zbornik *XII međunarodni naučno-stručni Simpozijum INFOTEH-JAHORINA 2013*, Jahorina, Bosna i Hercegovina, Mart 20–22, 2013, vol. 12, str. 434–438.

16. D. Miljanović, M. Potrebić, D. V. Tošić, Z. Stamenković, "Feeder realization for quasi-lumped multilayer resonators with low Q-factor", in Proc. *11th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing* (CSECS '12), Montreux, Switzerland, Dec. 29-31, 2012, pp. 123–126.

17. M. Radovanović, M. Potrebić, D. V. Tošić, "Inherent transmission zeros in printed combline filters", in Proc. *48th International Conference on Microelectronics, Devices and Materials* (MIDEM 2012), Otočec, Slovenia, Sep. 19-21, 2012, pp. 237–242.

18. M. Potrebić, D. V. Tošić, Z. Cvetković, N. Radosavljević, "WIPL-D modeling and results for waveguide filters with printed-circuit inserts", in Proc. *28th International Conference on Microelectronics* (MIEL 2012), Niš, Serbia, May 13-16, 2012, pp. 309–312.

19. M. Radovanović, M. Potrebić, D. V. Tošić "Ekstrakcija nula i polova kod češljastih filtara", in Proc. *20th Telecommunications forum* (TELFOR 2012), Belgrade, Serbia, Nov. 20–22, 2012, pp. 1552–1555.

20. S. Zečević, M. Potrebić, D. V. Tošić, "Modelovanje planarnog filtra sa dva propusna opsega u mikrotalasnim softverima", in Proc. *20th Telecommunications forum* (TELFOR 2012), Belgrade, Serbia, Nov. 20–22, 2012, pp. 1540–1543. ISBN: 978-1-4673-2982-8

21. D. Miljanović, M. Potrebić, D. V. Tošić, "Faktor dobrote kvazi-koncentrisanog višeslojnog rezonatora sa induktivnim uvodnikom", in Proc. *20th Telecommunications forum* (TELFOR 2012), Belgrade, Serbia, Nov. 20–22, 2012, pp. 1139–1142.

Радови пре избора у звање ред. проф. (55 радова)

1. A. R. Đorđević, D. V. Tošić, "Causality of circuit and electromagnetic-field models", in Proc. *5th IEEE European Conference on Circuits and Systems for Communications* (ECCSC'10), Nov. 23–25, 2010, Belgrade, Serbia, pp. 12–21, invited plenary paper. ISBN: 978-86-7466-394-3

2. M. Hribšek, D. Tošić, M. Tasić, Z. Filipović, Z. Živković, "Design and realization of transversal syrface acoustic wave RF filters", in Proc. *5th IEEE European Conference on Circuits and Systems for Communications* (ECCSC'10), Nov. 23-25, 2010, Belgrade, Serbia, pp. 82–85. ISBN: 978-86-7466-394-3

3. A. R. Đorđević, D. V. Tošić, "Negative group delay and causality", in Proc. *5th IEEE European Conference on Circuits and Systems for Communications* (ECCSC'10), Nov. 23-25, 2010, Belgrade, Serbia, pp. 286–289. ISBN: 978-86-7466-394-3

4. M. Hribšek, S. Ristić, Z. Živković, D. Tošić, "Modelling of SAW biosensors", in Proc. *International Conference on Biomedical Electronics and Devices* (BIODEVICES 2009), Porto, Portugal, Jan. 14-17, 2009, pp. 376–379. ISBN 978-989-8111- 64-7

5. D. V. Tošić, V. V. Petrović, "Formulation of microwave circuit equations: An educational viewpoint", in Proc. *of 9th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, TELSIKS 2009, Niš, Serbia, Oct. 7-9, 2009, pp. 160–163. ISBN: 978-1-4244-4383-3

6. D. V. Tošić, M. D. Lutovac, "Symbolic simulation of engineering systems", in Proc. *4th IEEE European Conference on Circuits and Systems for Communications* (ECCSC'08), Politehnica University, Bucharest, Romania, July 10-11, 2008, plenary lecture, pp. 59–68, doi: 10.1109/ECCSC.2008.4611647

7. D. V. Tošić, M. M. Paramentić, "Symbolic generation of models for microwave software tools", in Proc. *of 8th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, TELSIKS 2007, Niš, Serbia, Sep. 26-28, 2007, vol. 1, pp. 211–214. ISBN: 1-4244-1467-9

8. M. D. Lutovac, D. V. Tošić, D. Šumić, "Interactive Filter Synthesis for Microwave Software Tools", in Proc. *of 8th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services*, TELSIKS 2007, Niš, Serbia, Sep. 26-28, 2007, vol. 1, pp. 207–210. ISBN 1-4244-1467-9

9. M. D. Lutovac, D. V. Tošić, "High-speed filter design using *Mathematica*", in Proc. *IEEE EUROCON 2005 – The International Conference on "Computer as a Tool"*, Belgrade, Serbia, Nov. 21-24, 2005, pp. 1626–1629.

10. S. M. Perović, D. V. Tošić, S. I. Bauk, "Concerning the special trans functions numerical simulation and computation", in Proc. *IEEE EUROCON 2005 – The International Conference on "Computer as a Tool"*, Belgrade, Serbia, Nov. 21-24, 2005, pp. 1730–1733.

11. M. Lutovac, D. Tošić, "Symbolic signal processing and system analysis", in Proc. *3rd COST #276 Workshop*, Budapest, Hungary, Oct. 2002, pp. 65–70.

12. M. Lutovac, D. Tošić, "Symbolic computation of digital transfer function using MATLAB", in Proc. *23rd Int. Conf. Microelectronics*, MIEL 2002, Niš, May 2002, pp. 651–654.

13. M. Valliappan, B. L. Evans, M. Gzara, M. D. Lutovac, D. V. Tošić, "Joint optimization of multiple behavioral and implementation properties of digital IIR filter designs", in Proc. *IEEE International Symposium on Circuits and Systems* ISCAS 2000, Geneva, Switzerland, May 28-31, 2000, vol. IV, pp. 77–80.

14. M. F. Hribšek, D. V. Tošić, "Ideal current-differencing amplifier as a building block for basic filter structures", in *Proc. IEEE Balkan Conference on Signal Processing, Communications, Circuits, and Systems* BCSP 2000, Maslak, Istanbul, Turkey, June 2-3, 2000, pp. CD-ROM.

15. D. V. Tošić, M. D. Lutovac, B. L. Evans, "Advanced continuous-time filter design in MATLAB", in *Proc. 22nd International Conference on Microelectronics, MIEL 2000,* Niš, Serbia, May 14-17, 2000, vol. 2, pp. 747–750.

16. M. D. Lutovac, D. V. Tošić, B. L. Evans, "A MATLAB toolbox for analysis of continuous-time filters", in *Proc. 22nd International Conference on Microelectronics, MIEL 2000,* Niš, Serbia, May 14-17, 2000, vol. 2, pp. 743–746.

17. M. D. Lutovac, D. V. Tošić, B. L. Evans, "EMQF filter design in MATLAB", in *Proc. 4th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services,* TELSIKS99, Niš, 1999, pp. 125–128.

18. D. V. Tošić, M. D. Lutovac, B. L. Evans, "Advanced digital filter design", in *Proc. 1999 European Conference on Circuit Theory and Design,* ECCTD'99, Stresa, Italy, Sep. 1999, vol. 2, pp. 1323–1326.

19. D. V. Tošić, M. D. Lutovac, "Symbolic computation of impulse, step and sine response of linear time-invariant systems", in *Proc. 10th Int. Symp. Theoretical Electrical Eng.* ISTET'99, Magdeburg, Germany, 1999, pp. 653–657.

20. M. F. Hribšek, D. V. Tošić, "Versatile OTA filter sections with independent pole-frequency and bandwidth control", in *Proc. 2nd IMACS International Conference on Circuits, Systems and Computers* IMACS-CSC'98, Piraeus, Greece, Oct. 26-29, 1998, vol. 2, pp. 956–958.

21. D. V. Tošić, M. D. Lutovac, B. L. Evans, I. M. Markoski, "A tool for symbolic analysis and design of analog active filters", in Proc. *5th International Workshop on Symbolic Methods and Applications to Circuit Design* SMACD'98, Kaiserslautern, Germany, Oct. 8-9, 1998, pp. 71–74.

22. M. D. Lutovac, D. V. Tošić, I. M. Markoski, "Symbolic computation of elliptic rational functions", in *Proc. 5th International Workshop on Symbolic Methods and Applications to Circuit Design* SMACD'98, Kaiserslautern, Germany, Oct. 8-9, 1998, pp. 177–180.

23. M. F. Hribšek, D. V. Tošić, "Design of a simple electronically controlled octave equalizer" in *Proc. VI international SAUM conference on Systems, Automatic Control and Measurements,* Niš, Serbia, 1998, pp. 176–178.

24. N. Damera-Venkata, B. L. Evans, M. D. Lutovac, D. V. Tošić, "Joint optimization of multiple behavioral and implementation properties of analog filter designs", in *Proc. IEEE International Symposium on Circuits and Systems* ISCAS'98, Monterey, CA, USA, 1998, pp. 286–289.

25. M. D. Lutovac, D. V. Tošić, D. Novaković, "Programmable low-pass/high-pass SC-filters", in *Proc. 9th Mediterranean Electrotechnical Conference* MELECON'98, Tel-Aviv, Israel, May 1998, vol. I, pp. 673–677.

26. M. D. Lutovac, D. V. Tošić, B. L. Evans, "Advanced filter design", in *Proc. 31st IEEE Asilomar Conf. on Signals, Systems, and Computers,* Pacific Grove, CA, USA, Nov. 3-5, 1997, vol. I, pp. 710–715.

27. D. V. Tošić, M. Vujošević, "Symbolic Analysis of Systems Specified by Binary Boolean Functions", in *Proc. 4th Balkan Conference on Operational Research* BCOR'97, Thessaloniki, Greece, Oct. 20-23, 1997, vol. 2, pp. 967–980.

28. M. D. Lutovac, D. V. Tošić, B. L. Evans, "Design space approach to advanced filter design", in *Proc. of 3rd International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services* TELSIKS'97, Niš, Serbia, Oct. 8-10, 1997, pp. 179–190. Invited paper

29. I. M. Markoski, D. V. Tošić, R. S. Marković, "A new visual editor for schematic entry of linear time-invariant systems in symbolic analysis", in *Proc. of 3rd International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services* TELSIKS'97, Niš, Serbia, Oct. 8-10, 1997, pp. 134–137.

30. M. D. Lutovac, D. V. Tošić, B. L. Evans, "Symbolic analysis of programmable digital filters", in *Proc. 21st International Conference on Microelectronics* MIEL'97, Niš, 1997, pp. 713–716.

31. D. V. Tošić, A. Mojsilović, M. Popović, "Symbolic approach to 2D biorthogonal diamond-shaped filter design", in *Proc. 21st International Conference on Microelectronics* MIEL'97, Niš, Serbia, Sep. 14-17, 1997, pp. 709–712.

32. I. M. Markoski and D. V. Tošić, "Symbolic approximation of circuit response containing negative terms", in *Proc. 21st International Conference on Microelectronics* MIEL'97, Niš, Serbia, Sep. 14-17, 1997, pp. 705–708.

33. B. Lu, B. L. Evans, D. V. Tošić, "Simulation and Synthesis of Artificial Neural Networks Using Dataflow Models in Ptolemy", in *Proc. 4th Seminar on Neural Network Applications in Electrical Engineering* NEUREL-97, Belgrade, Serbia, 1997, pp. 84–89. Invited paper

34. A. Mojsilović, D. V. Tošić, M. Popović, "The design of 2D hexagonal filters based on transformations: The symbolic approach", in *Proc. The 1997 European Conf. on Circuit Theory and Design* ECCTD'97, Budapest, Hungary, 1997, pp. 890–895.

35. I. M. Markoski, D. V. Tošić, R. S. Marković, "A new visual editor for schematic circuit entry in symbolic analysis", in *Proc. 9th International Symposium on Theoretical Electrical Engineering* ISTET'97, Palermo, Italia, June 9-11, 1997, pp. 516–519.

36. D. V. Tošić, M. D. Lutovac, I. M. Markoski, "Symbolic derivation of transfer functions of discrete-time systems", in *Proc. 9th International Symposium on Theoretical Electrical Engineering* ISTET'97, Palermo, Italia, June 9-11, 1997, pp. 311–314.

37. I. M. Markoski, D. V. Tošić, B. D. Reljin, "A simple algorithm for formula approximation in symbolic analysis of linear circuits", in *Proc. 9th International Symposium on Theoretical Electrical Engineering* ISTET'97, Palermo, Italia, 1997, pp. 120–123.

38. D. V. Tošić, "SALECAS - a package for symbolic analysis of linear circuits and systems", in *Proc. 4th International Workshop on Symbolic Methods and Applications to Circuit Design,* Leuven, Belgium, Oct. 10-11, 1996, pp. 227–230.

39. B. Nikolić, D. V. Tošić, S. Marjanović, "Symbolic analysis of feedback amplifier circuits", in *Proc. 4th International Workshop on Symbolic Methods and Applications to Circuit Design,* Leuven, Belgium, Oct. 10-11, 1996, pp. 244–247.

40. M. D. Lutovac, D. V. Tošić, B. L. Evans, "An algorithm for symbolic design of elliptic filters", in *Proc. 4th International Workshop on Symbolic Methods and Applications to Circuit Design,* Leuven, Belgium, Oct. 10-11, 1996, pp. 248–251.

41. D. V. Tošić, I. A. Škokljev, "SALF - a tool for symbolic analysis of the DC load flow", in *Proc. 5th International Conference Tesla III Millennium,* Belgrade, Serbia, Oct. 15-18, 1996, pp. III.19–III.26.

42. D. V. Tošić, B. D. Reljin, "Symbolic analysis of electric circuits using the program SALEC", in *Proc. Third International Conference ELECTROSOFT 96, Software for Electrical Engineering Analysis and Design,* San Miniato, Italy, May 28-30, 1996, pp. 135–144.

43. D. V. Tošić, B. D. Reljin, A. S. Marinčić, "Symbolic analysis of a 4-element Butler matrix", in *Proc. Trans Black Sea Region Symposium on Applied Electromagnetism,* Metsovo, Epirus, Greece, Apr. 1996, pp. MMWS-5.

44. D. V. Tošić, A. R. Djordjević, B. D. Reljin, "Symbolic analysis of microwave circuits", in *Proc. Trans Black Sea Region Symposium on Applied Electromagnetism,* Metsovo, Epirus, Greece, Apr. 1996, pp. MMWS-3.

45. M. F. Hribšek, D. V. Tošić, "A new active graphic equalizer", in *Proc. International Conference Forum Acusticum*, Antwerpen, Belgium, Apr. 1996, pp. 222.

46. M. F. Hribšek, D. V. Tošić, B. D. Reljin, "Simple generation and design method of second order filters with complex poles", in *Proc. International Conference Signal and Image Processing* SIP-95, Las Vegas, Nevada, USA, Nov. 20-23, 1995, pp. 497–499.

47. D. V. Tošić, B. D. Reljin, "Unified treatment of subnetworks in symbolic analysis of linear electric circuits and systems", in *Proc. 3rd Balkan Conference on Operational Research* BCOR'95, Thessaloniki, Greece, Oct. 16-19, 1995, pp. 326–339.

48. D. V. Tošić, B. D. Reljin, I. S. Reljin, "Educational aspect in symbolic analysis of linear electric circuits", in *Proc. 8th International Symposium on Theoretical Electrical Eng.* ISTET'95, Thessaloniki, Greece, 1995, pp. 533–536.

49. M. F. Hribšek, D. V. Tošić, "Modeling of coupled silicon beams", in *Proc. 20th International Conference on Microelectronics* MIEL'95, Niš, 1995, vol. 2, pp. 789–791.

50. M. F. Hribšek, D. V. Tošić, N. Jokić, "High-frequency continuos-time filters design using a single operational transconductance amplifiers", in *Proc. 20th International Conf. on Microelectronics* MIEL'95, Niš, 1995, pp. 747–751.

51. R. Tomović, I. S. Reljin, B. D. Reljin, D. V. Tošić, "Neural network for rehabilitation of upper extremities", in *Proc. First European Conference on Advanced Robotics and Intelligent Automation* ECPD'95, Athens, 1995, pp. 87–92.

52. M. Hribšek, D. V. Tošić, "An improved algorithm for analysis of pulse compression filters", in *Proc. 8th Colloquium on Microwave Communication*, Budapest, Hungary, Aug. 1986, pp. 373–374.

53. M. Hribšek, D. V. Tošić, "An improved single operational amplifier allpass network with complex poles and zeroes", in *Proc. 5th International Symp. on Network Theory*, Sarajevo, Former Yugoslavia, Sep. 1984, pp. 169–173.

54. M. Hribšek and D. V. Tošić, "An improved algorithm for analysis of uniform SAW devices", in *Proc. 26th Midwest Symp. on Circuits and Systems*, Mexico, 1983, pp. 243–246.

55. B. Reljin and D. V. Tošić, "On the applicability of the GIC derived Fliege filter", in *Proc. Summer Symposium on Circuit Theory* SSCT'82, Prague, Aug. 1982, pp. 407–411.

Рад саопштен на скупу међународног значаја и објављен у изводу

D. V. Tošić, S. K. Simić, M. Potrebić, "Analysis of electric circuits with *Mathematica*", in *Proc. of Abstracts, Int. mathematical conf. MAGT 2006: Topics in Mathematical Analysis and Graph Theory*, Belgrade, Serbia, 2006, p. 51.

Радови објављени у целини у часописима националног значаја

Радови обележени звездицом припадају петогодишњем периоду после избора у звање редовног проф.

*1. I. Marković, M. Potrebić, D. Tošić, "Mogućnost primjene memristora u mikrotalasnim filtrima", *Tehnika*, vol. 71, no. 6, pp. 853–860, 2016.

*2. A Plazinić, M. Potrebić, D. Tošić, M. Plazinić, "Minijaturizacija mikrotalasnog planarnog filtra višeg reda", *Tehnika*, vol. 71, no. 4, pp. 579–584, 2016.

*3. M. Mrvić, S. Stefanovski, M. Potrebić, D. Tošić, "Nova realizacija talasovodnog filtra sa dva nepropusna opsega pomoću četvrttalasnih rezonatora", *Tehnika*, vol. 70, no. 3, pp. 473–480, 2015.

*4. D. Miljanović, M. Potrebić, D. Tošić, "Projektovanje filtra propusnika opsega učestanosti sa kvazi-koncentrisanim rezonatorima korišćenjem zamjenske šeme", *Tehnika*, vol. 69, no. 3, pp. 459–465, 2014.

*5. S. Stefanovski, M. Potrebić, D. Tošić, "Nova realizacija filtera nepropusnika opsega učestanosti u talasovodnoj tehnici", *Tehnika*, vol. 68, br. 5, pp. 897–904, Nov. 2013.

*6. M. Potrebić, D. V. Tošić, "Mikrotalasni rezonator sa kvazi-koncentrisanim komponentama", *Tehnika-Elektrotehnika*, vol. 5, pp. 761–765, 2012.

7. D. V. Tošić, "Graph-theoretic formulation of equations for electrical circuits with *Mathematica*", *The IPSI BgD Transactions on Internet Research*, vol. 6, no. 1, pp. 10-17, Jan. 2010.

8. M. F. Hribšek, D. V. Tošić, M. R. Radosavljević, "Surface Acoustic Wave Sensors in Mechanical Engineering", *FME Transactions*, vol. 38, no. 1, pp. 11–18, 2010.

9. M. Hribšek, D. V. Tošić, "Design of surface acoustic wave compressors with interdigital transducers", *Scientific Technical Review*, vol. LIX, no. 3-4, pp. 24–29, 2009.

10. D. V. Tošić, V. V. Petrović, "Microwave circuit element library for teaching RF and microwave engineering", *Microwave Review*, Spec. Issue on Edu. in Elec. Eng., vol. 15, no. 1, pp. 2–7, 2009.

11. M. Hribšek, D. V. Tošić, Z. Živković, "Hemijski gasni senzori sa površinskim akustičkim talasom", *Tehnika - Elektrotehnika*, vol. 58, no. 2, pp. 7–12, maj 2009.

12. D. V. Tošić, "Symbolic pattern matching and rule-based programming paradigm", *The IPSI BgD Transactions on Internet Research*, vol. 3, no. 2, pp. 20–22, July 2007.

13. M. F. Hribšek, D. V. Tošić, "Symbolic analysis and design of current-differencing-amplifier filters", *Scientific Technical Review*, vol. LVII, no. 2, pp. 19–23, 2007.

14. D. V. Tošić, M. D. Lutovac, "Advances in symbolic simulation of systems", *The IPSI BgD Transactions on Advanced Research*, vol. 3, no. 1, pp. 9–14, Jan. 2007.

15. D. V. Tošić, M. Potrebić, "Microwave software tools for research and education", *Microwave Review*, vol. 12, no. 2, pp. 45–54, Nov. 2006.

16. M. C. Marino, I. Sciriha, S. K. Simić, and D. V. Tošić, "More about singular line graphs of trees", *Publications de L'Institut Mathematique*, Nouvelle Serie, tome 79 (93), pp. 1–12, 2006.

17. D. V. Tošić, S. K. Simić, "Analysis of combinational networks with *Mathematica*", *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat.*, no. 16, pp. 76–87, 2005.

18. M. D. Lutovac, D. V. Tošić, "Symbolic signal processing and system analysis", *Facta Universitatis (Niš), Series: Electronics and Energetics*, vol. 16, no. 3, pp. 423–431, 2003.

19. M. D. Lutovac, D. V. Tošić, "Digital filter design using MATLAB and *Mathematica*", *Telekomunikacije*, vol. XLVII, no. 1, pp. 57–64, 1999.

20. D. V. Tošić, B. D. Reljin, A. R. Djordjević, "Unified treatment of subnetworks in symbolic analysis of linear electric circuits and systems", *Yug. J. of Oper. Res.*, vol. 6, no. 2, pp. 231–244, 1996.

21. S. M. Perovich, D. V. Tošić, "Concerning the some solution exactness for the dispersive equation in the transcendental method", *Applied Mathematics*, no. X, pp. 141–149, 1996.

22. B. Nikolić, D. V. Tošić, S. Marjanović, "Simbolička analiza pojačavača sa negativnom povratnom spregom", *Tehnika-Elektrotehnika*, vol. 45, no. 7-8, pp. E1–E5, 1996.

23. D. V. Tošić, A. R. Djordjević, B. D. Reljin, "Symbolic computation of S-parameters of linear electric networks", *ETF Journal of electrical engineering*, vol. 6, no. 1, pp. 84–98, 1996.

24. M. D. Lutovac, D. V. Tošić, "A symbolic design of Cauer filters", *Journal of Electrotechnics and Mathematics*, vol. 1, pp. 41–48, 1996.

Радови саопштени на скуповима националног значаја и објављени у целини у зборницима радова

Радови обележени звездицом припадају петогодишњем периоду после избора у звање редовног проф.

*1. A. Plazinić, M. Potrebić, "Kompaktan višeslojni filtar sa dva propusna opsega", Zbornik 59. konf. *ETRAN*, Srebrno jezero, Srbija, 8–11 jun, 2015, str. MT1.2 1–4.

*2. M. Mrvić, M. Potrebić, D. V. Tošić, "Ekvivalentna šema talasovodnog filtra nepropusnika opsega učestanosti", Zbornik 59. konf. *ETRAN*, 2015, str. MT1.3 1–5.

*3. A. Plazinić, M. Potrebić, D. V. Tošić, "Minijaturizacija filtara realizovanih pomoću rezonatora sa dve rezonantne učestanosti korišćenjem višeslojne tehnike", Zbornik 58. konf. *ETRAN*, 2014, str. MT1.1 1–4.

*4. M. Mrvić, S. Stefanovski, M. Potrebić, D. Tošić, "Talasovodni rezonatori sa dve rezonantne učestanosti realizovani u E i H ravni", Zbornik 58. konf. *ETRAN*, Vrnjačka Banja, Srbija, 2–5 jun, 2014, str. MT1.2 1–5.

*5. D. Miljanović, M. Potrebić, D. Tošić, "Realizacije uvodnika za višeslojni rezonator sa širokim opsegom vrijednosti Q-faktora," Zbornik 57. konf. *ETRAN*, Zlatibor, Srbija, 3–6 jun, 2013, str. MT 3.5. 1-4.

*6. M. Radovanović, I. Ignjić, M. Potrebić, D. V. Tošić, „Jedna modifikacija konvencionalnog algoritma za projektovanje češljastog filtra", Zbornik 56. konf. *ETRAN*, Zlatibor, Srbija, 11–14 jun, 2012, MT2.5., str. 1-4.

*7. Đ. Mirković, D. Miljanović, M. Potrebić, D. V. Tošić, „Modelovanje mikrotalasnog filtra sa kvazi-koncentrisanim rezonatorima u softveru WIPL-D", Zbornik 56. konf. *ETRAN*, Zlatibor, Srbija, 11–14 jun, 2012, MT2.6., str. 1-4.

8. D. V. Tošić, "Representation of microwave circuits in *SchematicSolver*", in *Proc. 18th Telecommunications forum* TELFOR 2010, Serbia, Belgrade, 2010, pp 1228–1231.

9. D. V. Tošić, "Educational software for solving electric circuits with *Combinatorica*", in *Proc. 17th Telecommunications forum* TELFOR 2009, Belgrade, Nov. 24-26, 2009, pp. 1129–1132.

10. D. V. Tošić, "Formulation of dynamics equation for electric circuits with computer algebra systems", in *Proc. 16th Telecommunications forum* TELFOR 2008, Belgrade, Serbia, Nov. 25-27, 2008, pp. 763–766.

11. T. S. Milošević, D. V. Tošić, "MATLAB program za sintezu LC-filtara iz zadate transfer funkcije", in *Proc. 16th Telecommunications forum* TELFOR 2008, Belgrade, Serbia, Nov. 25-27, 2008, pp. 767–770.

12. D. V. Tošić, M. D. Lutovac, "*Mathematica* pattern matching for identification of Foster functions", in *Proc. 15th Telecommunications forum* TELFOR 2007, Belgrade, Serbia, Nov. 20-22, 2007, pp. 600–603.

13. M. D. Lutovac, D. V. Tošić, "Interactive LC filter synthesis in MATLAB", in *Proc. 51st Conf. ETRAN*, Herceg Novi, Montenegro, June 4-8, 2007, EK2.9, pp. 1-4.

14. D. V. Tošić, M. D. Lutovac, "Symbolic data structures for simulation of multirate systems", in *Proc. 51st Conf. ETRAN*, Herceg Novi, Montenegro, June 4-8, 2007, EK2.4, pp. 1-4.

15. M. D. Lutovac, D. V. Tošić, "Business plan for e-business of small and medium-sized enterprises", in *Proc. VII Conf. E-trgovina 2007*, Palić, Serbia, 2007, pp. 26–30.

16. D. V. Tošić, M. D. Lutovac, "Multirate systems simulation with *Mathematica*", in *Proc. 14th Telecommunications forum* TELFOR 2006, Belgrade, Serbia, Nov. 21-23, 2006, pp. 588–591.

17. M. D. Lutovac, D. V. Tošić, "Simbolički alati za razvoj numeričkih algoritama", in *Proc. 14th Telecommunications forum* TELFOR 2006, Belgrade, Serbia, Nov. 21-23, 2006, pp. 592–595.

18. D. V. Tošić, M. Potrebić, "Symbolic analysis of immittance inverters", in *Proc. 14th Telecommunications forum* TELFOR 2006, Belgrade, Serbia, Nov. 21-23, 2006, pp. 584–587.

19. M. D. Lutovac, D. V. Tošić, "Modelovanje sistema sa višestrukim odabiranjem", in *Proc. 50th Conf. ETRAN*, Belgrade, Serbia, June 6-8, 2006, vol. I, pp. 152–155.

20. M. Potrebić, D. V. Tošić, "Comparison of WIPL-D Microwave and Microwave Office Software", in *Proc. 50th Conf. ETRAN*, Belgrade, Serbia, June 6-8, 2006, vol. IV, pp. 311–314.

21. S. M. Perović, D. Tošić, S. Bauk, "Concerning the special trans function theory for some classes of nonlinear circuits equations", in *Proc. 49th Conf. ETRAN*, 2005, vol. I, pp. 169–172.

22. M. Lutovac, D. Tošić, M. Čović, "Repeatead iterations for fast LMS algorithm, Conference", in *Proc. 48th Conf. ETRAN*, Čačak, Serbia, June 6-10, 2004, pp.127–130.

23. D. Varagić, D. V. Tošić, "ICT in education: E-learning paradigm", in *Proc. Symp. E-trgovina*, Palić, Serbia, April 20-22, 2005, CD-ROM.

24. D. V. Tošić, D. Varagić, "Structural representation of e-business", in *Proc. Symp. E-trgovina 2004*, Palić, Serbia, Apr. 21-23, 2004, pp. CD-ROM.

25. M. D. Lutovac, D. V. Tošić, "Symbolic signal processing and system analysis", in *Proc. X Conf.* TELFOR 2002, pp. 477–480.

26. M. D. Lutovac, D. V. Tošić, "AFDESIGN -- a toolbox for continuous-time filter design in MATLAB", in *Proc. XLIV Conf. ETRAN*, Soko Banja, Serbia, 2000, pp. 113–116.

27. M. F. Hribšek, D. V. Tošić, "Symbolic analysis of current-differencing amplifier circuits", in *Proc. XLIV Conf. ETRAN*, Soko Banja, Serbia, 2000, pp. 178–181.

28. D. V. Tošić, V. Pocajt, R. Kužić, "Trendovi elektronskog poslovanja i preduzetništva u svetu i mogućnosti uključenja naše zemlje", in *Proc. VII Conf. SymOrg 2000*, 2000, pp. 781–786.

29. V. Pocajt, Z. Vragolović, M. Otašević, D. V. Tošić, R. Kužić, "Primer razvoja Internet aplikacije: Baza podataka svetskih čelika Key to Steel", in *Proc. VII Conf. SymOrg 2000*, Zlatibor, Serbia, 2000, pp. 757–762.

30. M. D. Lutovac, D. V. Tošić, "Digital filter design using MATLAB and *Mathematica*", in *Proc. VI Conf. TELFOR*, Belgrade, Serbia, 1998, pp. 354–359. Invited paper

31. M. F. Hribšek, D. V. Tošić, "Naponom kontrolisani OTA-C filtar", in *Proc. XLII Conf. ETRAN*, 1998, vol. 1, pp. 133–135.

32. D. V. Tošić, I. M. Markoski, "A new algorithm for symbolic approximation of expressions containing negative terms", in *Proc. XLI Conf. ETRAN*, Zlatibor, Serbia, 1997, vol. 1, pp. 233–236.

33. I. M. Markoski, R. Marković, D. V. Tošić, "A new visual editor for schematic digital circuit entry in symbolic analysis", in *Proc. XLI Conf. ETRAN*, Zlatibor, Serbia, 1997, vol. 1, pp. 237–240.

34. D. V. Tošić, I. M. Markoski, "Simboličko uprošćavanje odziva linearnih rezistivnih električnih kola", in *Proc. IV Conf. TELFOR'96*, Belgrade, Serbia, 1996, pp. 388–391.

35. D. V. Tošić, "Objektno orijentisana dekompozicija u simboličkoj analizi tokova snaga elektroenergetskih sistema", in *Proc. XXIII Conf. YU-SYM-OP-IS'96*, 1996, pp. 710–713.

36. A. R. Djordjević, D. V. Tošić, B. D. Reljin, "Matrična formulacija jednačina koje opisuju linearna mikrotalasna kola zadata S-parametrima", in *Proc. XXIII Conf. YU-SYM-OP-IS'96*, Zlatibor, Serbia, 1996, pp. 687–690.

37. D. V. Tošić, I. A. Škokljev, "Matrična formulacija DC proračuna tokova snaga", in *Proc. XL Conf. ETRAN*, Budva, Montenegro, 1996, vol. 1, pp. 575–578.

38. D. V. Tošić, M. D. Lutovac, B. D. Reljin, "Model množača u simboličkom odredjivanju transfer funkcija kvantizacionog šuma množaca u sistemima diskretnim u vremenu", in *Proc. XL Conf. ETRAN*, 1996, pp. 397–400.

39. D. V. Tošić, A. R. Djordjević, B. D. Reljin, "Simbolička analiza linearnih električnih kola pomoću S-parametara", in *Proc. III Conf. CAD FORUM'96*, 1996, pp. 141–148.

40. I. M. Markoski, D. V. Tošić, B. D. Reljin , "Vizuelizacija procesa akvizicije podataka eksplozije ugljene prašine programom SampleHold", in *Proc. III Conf. CAD FORUM'96*, Novi Sad, Serbia, 1996, pp. 315–322.

41. D. V. Tošić, B. D. Reljin, "SALEC - Programski paket za simboličku analizu linearnih vremski nepromenljivih električnih kola pomoću računara", in *Proc. II Conf. CAD FORUM'95*, Novi Sad, Serbia, 1995, pp. 359–366.

42. D. V. Tošić, B. D. Reljin, I. S. Reljin, "Simbolička analiza nelinearnih električnih kola sa vremenski kontrolisanim prekidačima programom SALEC", in *Proc. II Conf. CAD FORUM'95*, Novi Sad, 1995, pp. 351–358.

43. D. V. Tošić, "Simbolička analiza aktivnih filtara programom SALEC", in *Proc. XXXIX Conf. ETRAN*, Zlatibor, Serbia, 1995, pp. 315–318, EK Section AWARD.

44. I. M. Markoski, D. V. Tošić, "Posebne morfoloske transformacije u digitalnoj obradi slike", in *Proc. XXXIX Conf. ETRAN*, Zlatibor, Serbia, 1995, pp. 246–249.

45. S. M. Perović, D. V. Tošić, B. Radojević, "O egzaktnosti rešenja transcendentalne jednačine procesa usporavanja neutrona", in *Proc. XXXIX Conf. ETRAN*, Zlatibor, Serbia, 1995, pp. IV.292-IV.295.

46. D. V. Tošić, B. D. Reljin, "Matrično opisivanje submreža u simboličkoj analizi složenih električnih kola", in *Proc. XXII Conf. YU-SYM-OP-IS'95*, 1995, pp. 693–696.

47. S. M. Perović, B. Dragović, D. V. Tošić, "Optimizacija letargijskog parametra u analitickom rešenju disperzione jednačine u linearnoj transportnoj teoriji neutrona", in *Proc. XXII Conf. YU-SYM-OP-IS'95*, Serbia, 1995, pp. 333–335.

48. D. V. Tošić, B. Kovačević, B. D. Reljin, "Simbolička analiza linearnih stacionarnih sistema programom SALTIS", in *Proc. V Conf. SAUM*, Novi Sad, 1995, pp. 157–161.

49. D. V. Tošić, M. F. Hribšek, B. D. Reljin, "Simbolička analiza video pred-filtra u CCD kameri", in *Proc. V Conf. SAUM*, Novi Sad, Serbia, 1995, pp. 162–167.

50. M. F. Hribšek, D. V. Tošić, B. D. Reljin, "Sinteza amplitudskog korektora pomoću programa SALEC", in *Proc. V Conf. SAUM*, Novi Sad, Serbia, 1995, pp. 152–156.

51. D. V. Tošić, M. D. Lutovac, B. D. Reljin, "Simbolička analiza linearnih digitalnih kola", in *Proc. II Conf. TELSIKS'95*, Niš, Serbia, 1995, pp. 302–305.

52. D. V. Tošić, Z. Z. Avramović, B. D.Reljin, "Jedna primena simboličke analize električnih kola na analizu šinskih strujnih kola", in *Proc. Conf. JUZEL'95*, Niš, Serbia, 1995, pp. 65–72.

53. D. V. Tošić, M. D. Lutovac, B. D. Reljin, "Simbolička analiza kvantizacionog šuma vremenski diskretnih sistema", in *Proc. III Conf. TELFOR'95*, Beograd, 1995, pp. 496–499.

54. D. V. Tošić, B. D. Reljin, "Simbolička analiza električnih kola sa transformatorima", in *Proc. III Conf. TELFOR'95*, Beograd, Serbia, 1995, pp. 500–502.

55. I. M. Markoski, D. V. Tošić, "Minimalan broj tačaka korespodencije u morfingu prostih geometrijskih oblika", in *Proc. III Conf. TELFOR'95*, Beograd, 1995, pp. 503–506.

56. D. V. Tošić, D. Kandić, "Novi koncept širokopojasnog prilagodjenja upotrebom jednostavnih LC blokova", in *Proc. XXXVIII Conf. ETRAN*, Niš, Serbia, 1994, pp. 157–158.

57. M. Perić, D. V. Tošić, "Aproksimacija u simboličkoj analizi linearnih električnih kola", in *Proc. XXXVIII Conf. ETRAN*, Niš, Serbia, 1994, pp. 125–126.

58. D. V. Tošić, B. D. Reljin, "Objektno orijentisana simbolička analiza linearnih električnih kola pomoću računara", in *Proc. XXI Conf. YU-SYM-OP-IS'94*, 1994, pp. 606–609.

59. D. V. Tošić, B. D. Reljin, I. M. Markoski, "Simboličko odredjivanje S-parametara stacionarnih linearnih telekomunikacionih sklopova", in *Proc. II Conf. TELFOR'94*, Beograd, Serbia, 1994, pp. 331–334.

60. B. D. Reljin, I. S. Reljin, D. V. Tošić, "Minimizacija uticaja JITTER-a takta u realnim SC kolima", in *Proc. II Conf. TELFOR'94*, Beograd, Serbia, 1994, pp. 371–374.

61. D. V. Tošić, I. M. Markoski, B. D. Reljin, "Simbolička analiza linearnih električnih kola", in *Proc. XXXVII Conf. ETAN*, Beograd, Serbia, 1993, pp. III.3-III.8.

62. D. V. Tošić, I. S. Reljin, B. D. Reljin, "Upotreba NF filtra kao operatora usrednjavanja za signal koruptiran multiplikativnim šumom", in *Proc. I Conf. TELFOR'93*, 1993, pp. 515–520.

63. I. S. Reljin, D. V. Tošić, B. D. Reljin, "Uticaj realnih analognih filtara na prenos digitalnih signala", in *Proc. I Conf. TELFOR'93*, Beograd, Serbia, 1993, pp. 527–532.

64. D. V. Tošić, "Kriterijum izbora stepena racionalne funkcije aproksimacije u projektovanju širokopojasnih prilagodjenja potrošača na generator", in *Proc. XXXVI Conf. ETAN*, Kopaonik, Serbia, 1992, pp. III.11-III.18.

65. M. Hribšek, D. V. Tošić, "Jednostavna sekcija drugog reda sa kompleksnim polovima", in *Proc. XXXII Conf. ETAN*, 1988.

66. D. Đ. Tošić, D. V. Tošić, "On the numerical evaluation of certain classes of integrals by residues method for evaluation of zeroes of polynomials", in *Proc. VI Conf. Applied Mathematics*, Tara, Serbia, 1988, pp. 236–242.

67. D. V. Tošić, D. Đ. Tošić, "Solving of complex equations by the principle of argument", in *Proc. VI Conf. Applied Mathematics*, Tara, Serbia, 1988.

68. V. Likar-Smiljanić, D. V. Tošić, "Vreme kašnjenja ekvivalentnog dvoslojnog vlakna (HE11)", in *Proc. XXXI Conf. ETAN*, Bled, Former Yugoslavia, 1987.

69. D. V. Tošić, M. M. Pravdić, "Jedna mikroprocesorska implementacija antiklaterskog filtra u sistemima za izdvajanje pokretnih ciljeva", in *Proc. V Conf. MIPRO 86*, Rijeka, Former Yugoslavia, 1986, pp. 4.172–4.176.

70. V. Likar-Smiljanić, D. V. Tošić, "Ekvivalentno dvoslojno vlakno za HE11 mod: odredjivanje odgovarajuceg profila i vreme kašnjenja", in *Proc. XXX Conf. ETAN*, Herceg-Novi, Montenegro, 1986, pp. V.119-V.125.

71. A. Božiković, D. V. Tošić, "Opšti kompjuterski program za odredjivanje dielektričnih svojstava materijala na osnovu merenja pomoću kratkospojenog voda", in *Proc. XXIX Conf. ETAN*, Niš, Serbia, 1985, pp. XI.165-171.

72. D. Đ. Tošić, D. V. Tošić, "A modification of Bernoulli's method for evaluation of zeroes of polynomials", in *Proc. of Numerical Methods and Approximation Theory II*, Novi Sad, Serbia, 1985, pp. 149–154.

73. D. Đ. Tošić, D. V. Tošić, "Two methods for the curve drawing in plane", in *Proc. of Numerical Methods and Approximation Theory I*, Niš, Serbia, 1984, pp. 61–65.

74. I. Reljin, B. D. Reljin, D. V. Tošić, "Primena mikroprocesora u aktivnim RC filtrima", in *Proc. II Conf. MIPRO 83*, Rijeka, Former Yugoslavia, 1983, pp. 2.73–2.78.

75. D. V. Tošić, B. D. Reljin, "Uticaj frekventno-zavisnog pojačanja operacionih pojačavača na KHN filtar", in *Proc. XXVI Conf. ETAN*, Subotica, Serbia, 1982, pp. I.343-I.349.

76. D. V. Tošić, B. D. Reljin, "Uticaj parametara realnog operacionog pojačavača na Fliege-ov filtar", in *Proc. XXV Conf. ETAN*, Mostar, Former Yugoslavia, 1981, pp. I.189-I.194.

77. I. Reljin, B. D. Reljin, D. V. Tošić, "Optoelektronski uredjaj za registrovanje malih i sporih vibracija", in *Proc. XXIII Conf. ETAN u pomorstvu*, 1981, pp. 290–294.

78. D. V. Tošić, "Klasifikacija linearnih vremenski nepromenljivih rezistivnih elemenata sa dva pristupa", in *Proc. XVIII Conf. SUSEJ*, Umag, Former Yugoslavia, 1978, vol. 4, pp. 219–223. Studentski rad na Elektrijadi 1978.

Радови саопштени на скуповима националног значаја објављени у изводу

1. S. M. Perović, D. V. Tošić, "Concerning the exactness of the closed-form solution to the RC diode circuit transcendental equation", in *Proc. of Abstracts XI Conf. on Applied Mathematics PRIM'96*, 1996, pp. 37–38.

2. D. V. Tošić, S. Simić, B. D. Reljin, S. M. Perović, "Automated computer-aided symbolic analysis of systems specified by binary Boolean functions", in *Proc. of Abstracts XI Conf. on Applied Mathematics PRIM'96*, 1996, pp. 70.

3. S. M. Perović, D. V. Tošić, "Analiza egzaktnosti nekih rešenja u teoriji transcendentalne metode", in *Proc. of Abstracts X Conf. on Applied Mathem. PRIM'95*, 1995, p. 58.

4. S. M. Perović, D. V. Tošić, "O egzaktnosti analitičkog rešenja funkcionalne disperzione jednačine u linearnoj transportnoj teoriji neutrona", in *Proc. of Abstracts X Conf. on Applied Mathematics PRIM'95*, 1995, p. 59.

5. S. M. Perović, D. V. Tošić, "The closed-form solution of one class of transcendental equations", in *Proc. of Abstracts 9th Congress of Yugoslav Mathematicians*, 1995, p. 146.

6. N. Pavlović, D. V. Tošić, B. D. Reljin, "Objektno orijentisana dekompozicija u vizuelizaciji električnih kola", in *Proc. Conf. YU INFO'95*, Brezovica, Serbia, 1995.

Предавања по позиву

1. *Application of memristors in RF/Microwave circuits*, COST Workshop, Memristors – Devices, Models, Circuits, Институту за физику, 15.09.2015, Земун.

2. *Microwave Circuit Element Library for Teaching RF and Microwave Engineering*, (with Prof. Dr. Vladimir V. Petrović) EU Tempus Project JEP 41112-2006, Workshop III, Towards Improving the Engineering Education, Friday 05.06.2009. University of Niš, Serbia.

3. *Digital Economy and Power Systems*, EU Tempus Project, Business Models in a World Characterised by Distributed Generation, School of Electrical Engineering, University of Belgrade, Belgrade, Serbia, 2009.

4. *Mathematica Natural Language Computing*, Joint SLO-SRB Project E-speranto, Univerza v Ljubljani, Fakulteta za elektrotehniko, Katedra za telekomunikacije, Lab. za komunikacijske naprave, Ljubljana, Slovenija, Feb. 6, 2009.

5. *Softverski alati za mikrotalasna istraživanja, projektovanje i obrazovanje: Microwave Office, Ansoft Designer i WIPL-D Microwave*, Meeting of the IEEE MTT & Education Society Chapters SCG, Beograd, Srbija, 6. jun 2006.

6. *Tutorial: Symbolic analysis and design of communication systems using computer algebra systems*, The 10th MCM of the COST 289 Action, University of Novi Sad, Serbia, March 23-24, 2006.

7. *Primena softvera za algebarsko-simboličko i numeričko procesiranje u edukaciji, analizi i projektovanju linearnih i nelinearnih sistema*, Univerzitet u Novom Sadu, FTN, Novi Sad, Jan. 21, 2006.

8. *Primena softvera Mathematica u Spektralnoj teoriji grafova*, Univerzitet u Novom Sadu, Matematički fakultet, Novi Sad, Dec. 5, 2005.

9. *Tutorial: Digital and Analog Signal Processing using MATLAB and Mathematica*, IEEE EUROCON 2005 – The International Conference on "Computer as a Tool", Belgrade, Serbia, 2005.

10. *Tutorial: Mathematica as a tool for research in Spectral Graph Theory*, 7th Workshop on Combinatorics, Università di Messina, Messina, Italia, Oct. 4-7, 2005.

11. *Some Investigations in Spectral Graph Theory with Mathematica*, 7th Workshop on Combinatorics, Università di Messina, Messina, Italia, Oct. 4-7, 2005.

12. *Programming Paradigms via Mathematica*, DSP Seminar, TELFOR 2003, Belgrade, Serbia, Nov. 23, 2003.

13. *Signal Processing Using Mathematica*, Wolfram Research, Inc., Champaign, IL, USA, July 30, 2002.

14. *Symbolic Analysis of LTI Systems from DrawFilt Schematics*, Wolfram Research, Inc., Champaign, IL, USA, July 10, 2002.

15. *Advanced Filter Design Using Mathematica*, Institute for Signal and Information Processing (ISI), Swiss Federal Institute of Technology (ETH), Zurich, Switzerland, 1998.

16. *Computer-Aided Symbolic Analysis of Electric Circuits and Systems*, IRITEL, Belgrade, Serbia, Dec. 23, 1998.

17. *SALECAS: A Framework for Symbolic Analysis of Linear Circuits and Systems*, Signal and Image Processing Lab, The University of Texas at Austin, USA, 1997.

18. *Advanced Design of Elliptic Filters Using a Symbolic Algebraic Approach*, Signal and Image Processing Lab, The University of Texas at Austin, Austin, USA, April 24, 1997.

19. *Seminar on Advanced Analog/Digital IIR Filter Design*, Crystal Semiconductor Corporation, Texas, USA, 1997.

20. *General matrix approach to symbolic analysis of linear circuits and systems*, "Politehnica" University, Bucharest, Romania, 1996.

3. Пројекти и софтвер

Пројекти

1. Пројекат технолошког развоја ТР ИТ.1.17.0241.Б, "Пасивни РФ и микроталасни модули и антене за системе дигиталног преноса и бежични Интернет", 2002.–2004. Руководилац Антоније Ђорђевић.

2. Пројекат технолошког развоја ТР-6154, "RF и микроталасне компоненте и антене за бежичне рачунарске мреже и WiFi Интернет инфраструктуру", 2005.-2007. Руководилац Антоније Ђорђевић.

3. Пројекат технолошког развоја ТР-11021, "Развој алгоритама и софтвера за пројектовање сложених RF и микроталасних компоненти, антена и система", 2008.–2010. Руководилац Антоније Ђорђевић.

4. Пројекат технолошког развоја ТР-32005, "Алгоритми и софтвер за симулације у фреквенцијском и временском домену RF подсистема и електромагнетских сензора у ICT", 2011.–2017. Руководилац Бранко Колунџија.

Софтвер

SchematicSolver 2.3, A *Mathematica* package for mixed symbolic-numeric analysis, processing, and design of analog and digital systems, distributed by Wolfram Research, 2014. http://www.wolfram.com/products/applications/schematicsolver/

EMF Toolbox, Efficient Multirate Filtering software for design of fast digital filters and filter banks in MATLAB, 2002.

DRAWFILT-DFSYM Toolbox, Drawing filter realizations and symbolic analysis in MATLAB, 2001.

AFDesign Toolbox, Advanced Filter Design in MATLAB, 2001.

EMN, *Mathematica*, преко 70 докумената (notebooks) са библиотекама (packages) за пројектовање филтара, 2001.

4. Књиге, монографије и уџбеници

Истакнута научна монографија међународног значаја на енглеском и кинеском језику

M. D. Lutovac, D. V. Tošić, B. L. Evans, *Filter Design for Signal Processing using MATLAB and Mathematica*, Prentice Hall, Upper Saddle River, NJ, 2001. ISBN 0-201-36130-2 (785 pages)

---, Reprint by Publishing House of Electronics Industry (PHEI), Beijing, China, 2002. ISBN 7-5053-7977-1

---, Translated in Chinese, Publishing House of Electronics Industry (PHEI), Beijing, China, 2004. ISBN 7-5053-8710-3

Научна књига међународног значаја на енглеском језику

B. M. Kolundžija, J. S. Ognjanović, T. K. Sarkar, D. S. Šumić, M. M. Paramentić, B. B. Janić, D. I. Olćan, D. V. Tošić, M. S. Tasić, *WIPL-D Microwave: Circuit and 3D EM Simulation for RF & Microwave Applications*, Artech House, 2005. ISBN 86-86173-00-4 (400 pages)

Научна монографија националног значаја

M. Hribšek, D. Tošić, *Filtri sa površinskim akustičkim talasom i njihove primene*, Institut Goša d.o.o., Beograd, 2010. ISBN 978-86-86917-11-9 (213 strana)

Поглавље у научној монографији међународног значаја на енглеском језику

M. Potrebić, D. Tošić, D. Biolek, "RF/Microwave Applications of Memristors", Chapter, pp. 159–185, doi: 10.1007/978-3-319-51724-7_7, S. Vaidyanathan, C. Volos (Editors), *Advances in Memristors, Memristive Devices and Systems*, Studies in Computational Intelligence, vol. 701, Springer, 2017. doi: 10.1007/978-3-319-51724-7, Print ISBN: 978-3-319-51723-0, ISBN: 978-3-319-51724-7 [online] http://www.springer.com/978-3-319-51723-0

S. Stefanovski Pajović, M. Potrebić, D. V. Tošić, "Advanced Filtering Waveguide Components for Microwave Systems", Chapter 3, pp. 41–61, doi: http://dx.doi.org/10.5772/66228, S. K. Goudos (Editor), *Microwave Systems and Applications*, InTech, 2017, ISBN: 978-953-51-2868-7, Print ISBN 978-953-51-2867-0 (432 pages) [online] http://www.intechopen.com/books/microwave-systems-and-applications

M. Hribšek, D. Tošić, "Analysis and modeling of surface acoustic wave chemical vapor sensors", Chapter 16, pp. 359–376, Don Dissanayake (Editor), *Acoustic Waves*, Sciyo, 2010. ISBN: 978-953-307-111-4 [online] http://www.intechopen.com/articles/show/title/analysis-and-modeling-of-surface-acoustic-wave-chemical-vapor-sensors

Уџбеници и збирке задатака

В. В. Петровић, Д. В. Тошић, А. Р. Ђорђевић, *Микроталасна пасивна кола*, Универзитет у Београду – Електротехнички факултет, Београд, 2010. http://www.etf.rs/etf_files/udzbenici/MPK_2010.pdf

А. Р. Ђорђевић, Д. В. Тошић, *Микроталасна техника*, Академска мисао, Београд, 2005.

М. М. Потребић, Д. В. Тошић, *Збирка испитних задатака из Теорије електричних кола*, Академска мисао, Београд, 2012.

Д. В. Тошић, В. Ликар-Смиљанић, *Микроталасна техника: Збирка задатака*, Академска мисао, Београд, 2005.

Б. Д. Рељин, Д. В. Тошић, *Теорија електричних кола Збирка решених домаћих и испитних задатака – II*, Електротехнички факултет, Београд, 2000.

Б. Д. Рељин, Д. В. Тошић, *Теорија електричних кола Збирка решених домаћих и испитних задатака – I*, Наука, 1993.

D. V. Tošić, V. V. Pocajt, M. D. Lutovac, *Osnovi elektronskog poslovanja*, VETS, Beograd, 2007.

M. D. Lutovac, D. V. Tošić, *Biznis plan za elektronsko poslovanje*, VETS, Beograd, 2006.

D. V. Tošić, M. D. Lutovac, *Osnovi elektronskog poslovanja: Priručnik*, ViŠER, Beograd, 2017.

M. D. Lutovac, D. V. Tošić, *Priručnik: Biznis plan za elektronsko poslovanje*, ViŠER, Beograd, 2015.

5. Одзив на радове

Одзив на све радове обухвата више од 200 цитата (не рачунајући аутоцитате и цитате на кинеском језику). Цитирају се књиге, радови у часописима, радови на конференцијама и софтвер.

SCOPUS показује165 цитата и Х-фактор 6 (без аутоцитата, без цитата књига и без цитата софтвера).

Одзив на монографију (изабрани цитати)

Следеће референце цитирају M. D. Lutovac, D. V. Tošić, B. L. Evans, *Filter Design for Signal Processing using MATLAB and Mathematica*, Prentice Hall, 2001. (785 pages) ISBN 0-201-36130-2

--- Reprint by Publishing House of Electronics Industry (PHEI), Beijing, China, 2002. ISBN 7-5053-7977-1

--- Translated in Chinese, Publishing House of Electronics Industry (PHEI), Beijing, China, 2004. ISBN 7-5053-8710-3

Књиге

Silvia Maria Alessio, *Digital Signal Processing and Spectral Analysis for Scientists*, Springer, 2016. Ch. "IIR Filter Design" [ref. 8]

Hercules G. Dimopoulos, *Analog Electronic Filters: Theory, Design and Synthesis*, Springer, 2012. p. 183 [ref. 11], p. 313 [ref. 6], p. 494 [ref. 6]

Fred Taylor, *Digital Filters: Principles and Applications with MATLAB*, Wiley, 2012. p. 279 [ref. 20]

Lars Wanhammar, *Analog Filters Using MATLAB*, New York, NY, Springer, 2009. p. 205 [ref. 71]

Ljiljana Milić, *Multirate Filtering for Digital Signal Processing: MATLAB Applications*, Hershey, 2009. p. 102

F. W. Isen, *DSP for MATLAB and LabVIEW Volume III: Digital Filter Design*, Morgan & Claypool, 2009. p. 194 [ref. 4]

R. A. Losada, *Digital Filters with MATLAB*, The MathWorks, Inc. 2008. p. 236 [ref. 19]

M. Müller, *Information Retrieval for Music and Motion*, Springer, 2007. p. 303 [ref. 128]

P. D. Cha, J. I. Molinder, *Fundamentals of Signals and Systems: A Building Block Approach*, Cambridge University Press, 2006.

M. Khosrow-Pour ed., *Encyclopedia of Information Science and Technology*, Idea Group Reference, Hershey, 2005, p. 983.

T. Petrović, A. Rakić, *Signali i sistemi*, Dexin, Beograd, 2005, p. 363.

F. Harris, *Multirate Signal Processing for Communication Systems*, Pearson, 2004, pp. 127-151.

Y. Sun, *Wireless communications circuits and systems*, IET, 2004, reprint 2008. p. 148 [ref. 7]

S. D. Stearns, D. R. Hush, *Digital Signal Processing with Examples in MATLAB®*, 2nd ed., CRC Press, 2002. p. 134 [ref. 15]

Софтвер

E. W. Weisstein, *World of Mathematics*, Online mathematical encyclopedia, Wolfram Research, Inc, 2003-2017, Referenced on Wolfram|Alpha, [online] http://mathworld.wolfram.com/EllipticRationalFunction.html

Wolfram Research, Inc, *Wolfram Books*, http://www.wolfram.com/books/profile.cgi?id=3841

NI AWR Design Environment, Microwave Office, *Elliptic-Function Bandpass Filter* (Closed Form): BPFE, 2002-2017. [online] https://awrcorp.com/download/faq/english/docs/Elements/BPFE.htm [ref. 1]

---, *Elliptic-Function Lowpass Filter* (Closed Form): LPFE, 2002-2017. [online] https://awrcorp.com/download/faq/english/docs/Elements/LPFE.htm [ref. 1]

The MathWorks, Inc. MATLAB, wdf2allpass, *Wave Digital Filter to allpass coefficient transformation*, 2017. [ref. 1]

---, dsp.AllpassFilter System object, *Single section or cascaded allpass filter*, 2017. [ref. 2]

Wikipedia, *Filter (signal processing)*, 2017.

P. Karantzalis, "Free FilterCAD 3.0 Software Designs Filters Quickly and Easily", Design Note 245, *Linear Technology* [online] http://cds.linear.com/docs/en/design-note/dn245.pdf [ref. 2]

Патенти

Patent *Multi-standard multi-rate filter*, US 9037625 B2, 2015.

European Patent Office, Decision T 0979/02 - 3.4.2, 2003, [online] http://legal.european-patent-office.org/dg3/pdf/t020979eu1.pdf

Тезе

М. С. Куцов, *Программно-аппаратный комплекс для контроля процедуры сердечно-легочной реанимации человека*, Диссертация на соискание ученой степени кандидата технических наук, Национальный исследовательский Томский государственный университет, Томск, 2016. п. 118 [реф. 56]

J. L. Christman, *Efficient digital spotlighting phase history re-centering hardware implementation*, M. Sc. thesis, University of Dayton, 2016. p. 72 [ref. 11]

B. W. Dess, *Signal processing and pattern recognition methods for the remote, airborne detection of radioisotopes by gamma-ray spectroscopy*, Ph. D. thesis, University of Iowa, 2016. p. 327 [ref. 72]

N. Ulapane, *Nondestructive evaluation of ferromagnetic critical water pipes using pulsed eddy current testing*, Ph. D. thesis, University of Technology, Sydney, 2016. p. 187 [ref. 46]

H. S. Goh, *The effect of grid operating conditions on the harmonic performance of grid-connected PV Inverters*, Ph. D. thesis, School of Electrical, Electronic and Computer Engineering, Newcastle University, 2012. p. 212 [ref. 53]

E. Florin, *Causality measures between neural signals from invasively and non-invasively obtained local field potentials in humans*, Dissertation zur Erlangung des Doktorgrades (Dr. rer. nat.) Fachbereich Mathematik und Naturwissenschaften, Fachgruppe Physik, Bergischen Universität Wuppertal, 2010. p. 182

H. Mekala, *Third order CMOS decimator design for sigma delta modulators*, M. Sc. thesis, Louisiana State Univ., 2009. [ref. 13]

P. Wensing, *Real-time computer control of a prototype bipedal system*, B. Sc.thesis, Ohio State University, 2009. [ref. 38]

M. Rahkila, *Agent-based Method for Self-study Interactive Web- based Education*, Thesis, *Helsinki University of Technology*, Department of Electrical and Communications Engineering, Laboratory of Acoustics and Audio Signal Processing, 2006. [ref. 67]

K. L. Goh, *Audio equaliser DSP based system*, M. Sc. in Electronics, University of Hertfordshire, Faculty of Engineering and Information Science, August 2001. [ref. 22], bib. 16

Радови

M.-X. Wang, "A dynamical Mordell-Lang property on the disk", *Transactions of the American Mathematical Society*, vol. 369, pp. 2183–2204, 2017. [ref. 10]

E. Seraj, R. Sameni, "Robust electroencephalogram phase estimation with applications in brain-computer interface systems", *Physiological Measurement*, vol. 38, no. 3, hal-01378726, 2017. [ref. 19]

С. А. Евгеньевич, Т. В. Васильевич, "Способы уменьшения среднеквадратической погрешности при импульсном измерении скорости звука в воде", *Ростовский научный журнал*, выпуск № 7, пп. 80–87, Июнь 2016. УДК: 621.373 [реф. 2]

B.V. Klimkovich, A.M. Tolochko, "A correcting filter for a mechanically dithered single-axis ring laser gyro", *Gyroscopy and Navigation*, vol. 7, no. 4, pp. 330–337, 2016. doi: 10.1134/S2075108716040064 [ref. 19]

H. Zhanget et al. "Model identification for the yaw motion of a tail-actuated robotic fish", in Proc. *IEEE International Conference on Robotics and Biomimetics* (ROBIO), doi: 10.1109/ROBIO.2016.7866341, 2016. [ref. 22]

S Alaci, M C Ciornei, F C Ciornei, C Filote, I C Românu, "Method and device for dynamic modelling of rubbery materials applied to human soft tissues. Part II: device and experimental results", in Proc. *International Engineering Research and Innovation Symposium* (IRIS), 2016. doi:10.1088/1757-899X/160/1/012057 [ref. 4]

H. Pessentheiner, M. Hagmüller, G. Kubin, "Localization and Characterization of Multiple Harmonic Sources", *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, vol. 24, no. 8, pp. 1348–1363, 2016. [ref. 53]

K. Nikolova, M. Ovcharov, G. Iliev, V. Poulkov, "2-bit word length Hilbert transformers for multicarrier communications", in Proc. *International Conference on Telecommunications and Signal Processing* (TSP), 2016. doi: 10.1109/TSP.2016.7760918 [ref. 10]

R. Kaur, M. S. Patterh, J.S. Dhillon, "A new greedy search method for the design of digital IIR filter", *Journal of King Saud University – Computer and Information Sciences*, vol. 27, pp. 278–287, 2015.

T. W. Ng, C. Y. Tsang, "Chebyshev–Blaschke products: Solutions to certain approximation problems and differential equations", *Journal of Computational and Applied Mathematics*, vol. 277, pp. 106–114, 2015.

B. P. Stošić, V. D. Pavlović, Vlastimir, "Using cascaded non-identical CIC sections to improve insertion loss", *Journal of Circuits, Systems and Computers*, vol. 24, no. 6, 1550092, 2015. [ref. 2]

S. R. Gaikwad, G. S. Gawande, "Design and Development of Efficient Digital Filter Structures using Xilinx System Generator", *IOSR Journal of Electrical and Electronics Engineering* (IOSR-JEEE), vol. 9, no. 2, ver. III, pp. 47–55, 2014. [ref. 14]

V. D. Pavlovic, et al. "Transitional Selective Linear Phase 1D FIR Filter Function Generated by Christoffel-Darboux Formula for Chebyshev Polynomials", *Elektronika ir Elektrotechnika*, vol. 20, no. 4,,pp. 3–10, 2014. [ref. 8]

H. Tanimoto, "Exact Design of RC Polyphase Filters and Related Issues", *IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences*, INVITED PAPER: Special Section on Analog Circuit Techniques and Related Topics, vol. E96-A, no. 2, pp. 402–414, 2013. [ref. 18]

T.W. Ng, M. X. Wang, "Ritt's theory on the unit disk", *Forum Mathematicum*, vol. 25, no. 4, pp. 821–851, 2013. [ref 25]

V. D. Pavlović, "Explicit form of new class of extremal filter functions with mini-max behaviour of summed sensitivity function", *International Journal of Electronics*, vol. 100, no. 5, pp. 582–602, 2013.

D. G. Ćirić, V. D. Pavlović, "Generalised Christoffel–Darboux formula most directly applied in generating fully symmetric doubly resistively terminated LC lossless ladder filters", *International Journal of Electronics*, vol. 100, no. 7, pp. 942–958, 2013.

M. Li, "Approximating Ideal Filters by Systems of Fractional Order", *Computational and Mathematical Methods in Medicine*, vol. 2012, Article ID 365054 (6 pages), doi:10.1155/2012/365054, 2012. [ref. 16]

L. Mei, W. Cui, "A new regularization method based on the magnitude response function of Chebyshev filter for inverse Problems", *World Journal of Modelling and Simulation*, vol. 8, no. 1, pp. 19–26, 2012. [ref. 13]

K. V. Cartwright, P. Russell, E. J. Kaminsky, "Finding the maximum magnitude response (gain) of second-order filters without calculus", *Latin-American J. Phys. Educ.*, vol. 6, no. 4, pp. 559–565, Dec. 2012. [ref. 2]

J. D. Ćertić, Lj. D. Milić, "Investigation of computationally efficient complementary IIR filter pairs with tunable crossover frequency, *AEU - International Journal of Electronics and Communications*, vol. 65, no. 5, pp. 419–428, May 2011. [ref. 18]

V. D. Pavlović, "An explicit form of all-pole filter function with decreasing envelope of the summed sensitivity function", *International Journal of Circuit Theory and Applications*, vol. 39, no. 5, pp. 515–531, 2011.

M. Fakhfakh, M. Loulou, "A novel design of a fully programmable switched current filter", *International Journal of Electronics*, vol. 97, no. 6, pp. 623–636, 2010.

J. He, K. Zou, M. Liu, "Section-representation scheme for evolutionary analog filter synthesis and fault tolerance design", *Third International Workshop on Advanced Computational Intelligence* (IWACI), Suzhou, China, 25-27 Aug. 2010. [ref. 10]

G. Jovanovic-Dolecek, S. K. Mitra, "Análisis simbólico sensitivo de la nueva estructura tipo IIR de segundo orden", *Ingeniería Investigación y Tecnología*, vol. IX, no. 1. pp. 59–65, 2008. [ref. 5]

J. Krákora, Z. Hanzálek, "FPGA based tester tool for hybrid real-time systems", *Microprocessors and Microsystems*, vol. 32, no. 8, pp. 447–459, 2008. [ref. 17]

Y. Yu, Y. Xinjie, Cooperative Coevolutionary Genetic Algorithm for Digital IIR Filter Design, *IEEE Transactions on Industrial Electronics*, vol. 54, no. 3, pp. 1311–1318, 2007. [ref. 1]

Hercules G. Dimopoulos, "Optimal Use of Some Classical Approximations in Filter Design", *IEEE Transactions on Circuits and Systems II: Express Briefs*, vol. 54, no. 9, pp. 780-784, 2007. [ref. 1]

S. B. Nerurkar, K. H. Abed, "Low-power decimator design using approximated linear-phase N-band IIR filter", *IEEE Transactions on Signal Processing*, vol. 54, no. 4, pp. 1550–1553, 2006. [ref. 3]

H. G. Göckler, S. Damjanovic, "Efficient implementation of real and complex linear-phase FIR and minimum-phase IIR halfband filters for sample rate alteration", *Frequenz*, vol. 60, no. 9-10, pp. 176–185, 2006. [ref. 22]

G. Jovanovic-Dolecek, S. K. Mitra, "Symbolic sensitivity analysis of IIR digital filters using MATLAB", *International Journal of Control*, vol. 79, no. 11, pp. 1331–1339, 2006.

Z. Ying, L. Yao-Hua, S. Xiao-Song, "Design of a cascade multilevel C-class amplifier's output filter", *Power Electronics*, vol. 40, no. 1, 2006. [ref. 3] doi: 1000-100X(2006)01-0026-03 [online] http://www.doc88.com/p-30290416564.html

J. Krakora, Z. Hanzalek, "Testing of hybrid real-time systems using FPGA platform", in *Proc. IES '06. International Symposium on Industrial Embedded Systems*, Antibes Juan-Les-Pins, 18-20 Oct. 2006, pp. 1-10. [ref. 15]

V. Aggarwal, W. O Jin, Una-May O'Reilly, "Filter approximation using explicit time and frequency domain specifications", in *Proc. of the 8th annual conference on Genetic and evolutionary computation*, pp. 753-760, 2006. [ref. 10] ISBN:1-59593-186-4

S. J. Orfanidis, *Lecture Notes on Elliptic Filter Design*, Electrical & Computer Engineering, Rutgers University, 2006. p. 41 [ref. 10]

C. Zhang, "Optimization of low pass filter design in lock-in amplifier", *Chinese Journal of Scientific Instrument*, vol. 26, no. 7, pp. 684–688, 2005.

S. J. Orfanidis, "High-order digital parametric equalizer design", *Journal of Audio Engineering Society*, vol. 53, no. 11, pp. 1026–1046, 2005. [online] http://www.aes.org/e-lib/browse.cfm?elib=13397

C. M. Chang, T. S. Liu, "Study on wavelet repetitive control", *IEE Proc.-Control Theory Appl.*, vol. 151, no. 3, pp. 303–309, 2004.

P. Li, Y. Fang, "Pass-band sensitivity analysis of MEMS resonators/filters for telecommunication", *Journal of Vibration Engineering*, vol. 17, no. 3, pp. 359–364, 2004.

B. Aliane, A. Sabanovic, "Design and implementation of digital bandpass FIR filter in FPGA", *Computers in Education Journal*, vol. 14, no. 1, 2004, pp. 76–81.

R. Saint-Nom, D. Jacoby, "Switched capacitors: A bridge between analog and digital SP", in Proc. *IEEE Int. Symp. Circ. Systems*, vol. 1, 2004, pp. I-841–I-844.

A. Trirat, S. Chivapreecha, T. Khunaworawet, T. Ruangrangsan, K. Dejhan, "Design of multiplierless elliptic narrowband IIR digital filter based on sensitivity analysis", in *Proc. IEEE International Symposium on Communications and Information Technologies ISCIT 2004*, pp. 171–177.

R. J. Cassidy, J. O. Smith, "A tunable, nonsubsampled, non-uniform filter bank for multi-band audition and level modification of audio signals", in *Proc. Asilomar Conference on Signals, Systems and Computers*, 2004, pp. 2228–2232.

L. Milic, T. Saramaki, "Three classes of IIR complementary filter pairs with an adjustable crossover frequency", in *Proc. Int. Symp. Circ. Systems*, ISCAS '03, vol. 4, 2003, pp. 145–148.

M. Bhattacharya, T. Saramaki, "Allpass structures for multiplierless realization of recursive digital filters", in *Proc. Int. Symp. Circ. Systems*, ISCAS '03, vol. 4, 2003, pp. 237–240.

M. Bhattacharya, T. Saramaki, "Multiplierless implementation of bandpass and bandstop recursive digital filters using allpass structures", in *Proc. Int. Symp. Circ. Systems*, ISCAS '03, 2003, pp.249–252.

R. Saint-Nom, D. Jacoby, "Switched capacitors: A bridge between analog and digital SP", in *Proc. IEEE Int. Conf. Acoustics, Speech, Signal Processing*, ICASSP, 2003, pp. III-749–III-752.

J. Yao, C. Li, "The design of anti-aliasing filter for dynamic signal measurement", in *Proc. SPIE The International Society for Optical Engineering*, vol. 5253, 2003, pp. 350–355.

M. B. Yeary, N. C. Griswold, "Adaptive IIR filter design for single sensor applications", *IEEE Transactions on Instrumentation and Measurement*, vol. 51, no. 2, pp. 259–267, 2002. [ref. 22]

M. Bhattacharya, T. Saramaki, "Multiplierless implementation of bandpass and bandstop recursive digital filters", in *Proc. IEEE Int. Symp. Circ. Systems*, ISCAS, vol. 2, 2002, pp. 692–695.

M. Bhattacharya, T. Saramaki, "Multiplierless implementation of all-pole digital filters", in *Proc. IEEE Int. Symp. Circ. Syst.*, ISCAS, vol. 2, 2002, pp. 696–699.

M. Bhattacharya, T. Saramaki, "Multiplierless implementation of bandpass and bandstop IIR digital filters", in *Proc. IEEE Int. Conf. Acoustics, Speech, Signal Processing*, ICASSP, vol. 3, 2002, pp. 3184–3187.

C. M. Chang, T. S. Liu, "Application of discrete wavelet transform to repetitive control", in *Proc. American Control Conference*, vol. 6, 2002, pp. 4560–4565.

J. Rubio, J. Sala, F. Núnez, "Canonic look ahead: Critical cycle relaxed IIR filtering with minimum multiplicative complexity", in *Proc. IEEE Int. Conf. Acoustics, Speech, Signal Processing*, ICASSP, vol. 2, 2001, pp. 1085–1088.

I. Tošić, M. Unkašević, "Spectrum analysis of the annual precipitation sums in Belgrade", in *Proc. 18th International Conference on Carpathian Meteorology*, Mountain influence on weather, Belgrade, Oct. 7-11, 2002, pp. 36–37.

The University of New Orleans, USA, course "ENEE 4554 – Analog and Digital Filter Design", 2005-2011, course textbook. (Dr. Huimin Chen, Assist. Prof. hchen2@uno.edu)

Florida International University, USA, course "EEL 4140 – Filter Design", spring 2005-2007, course textbook. (Dr. Malcolm Heimer, Assoc. Prof. heimerm@fiu.edu)

National Tsinghua University In Beijing, China, course "Advanced digital signal processing", 2005, course textbook. (Bao Jianrong, ibaojr@163.com)

Kong Xiang Wei, "The sensitivity analysis to active filter design", *Journal of Laiyang Agricultural College*, vol. 21, no.3, pp. 259–261, 2004. Article serial number: 1001-3717 (2004) 03-0259-03

Hu Bing, Li Xiangjiang, Hu Cake, Alley-jiang Li, "Static characteristics and medium-sized pumping station test system hardware", *Computer and Modernization*, vol. 12, 2009. [ref. 6], doi: 10.3969/j.issn.1006-2475.2009.12.055

Изабрани цитати

Рад који цитира	Цитирани рад Дејана Тошића
1) M. Babajanzadeh, M. Dousti, "Design of a compact dual-mode dual-band bandpass filter using stacked-loop resonators structure", *Journal of Circuits, Systems, and Computers*, vol. 26, no. 10, 1750163 (10 pages), 2017. 2) A. Bage, S. Das, "Compact Triple-Band Waveguide Bandpass Filter Using Concentric Multiple Complementary Split Ring Resonators", *Journal of Circuits, Systems and Computers*, vol. 26, no. 6, 1750096 (12 pages) 2017.	S. Stefanovski, M. Potrebić, D. Tošić, Z. Stamenković", Compact dual-band bandpass waveguide filter with H-plane inserts", *Journal of Circuits, Systems, and Computers*, vol. 25, no. 3, pp. 1640015 (18 pages), 2016.
1) W. A. Arriola, Y.-S. Kim, J.-W. Lee, I. S. Kim, "Bandwidth of complementary split ring resonator for rectangular waveguide BPFs", *IEEE Microwave And Wireless Components Letters*, vol. 26, no. 9, pp. 669– 671, 2016. 2) A. Bage, S. Das, "A compact, wideband waveguide bandpass filter using complementary loaded split ring resonators", *Progress In Electromagnetics Research C*, vol. 64, pp. 51–59, 2016.	S. Stefanovski, Đ. Mirković, M. Potrebić, D. Tošić, "Novel design of H-plane bandpass waveguide filters using complementary split ring resonators", in Proc. *Progress In Electromagnetics Research Symposium* (PIERS 2014), Guangzhou, China, August 25–28, 2014, pp. 1963–1968.
1) D. Yu, C. Zheng, H. H.-C. Iu, T. Fernando, **Leon Chua**, "A new circuit for emulating memristors using inductive coupling", *IEEE Access*, vol. 5, 2017. doi: 10.1109/ACCESS.2017.2649573	M. Potrebić, D. Tošić, "Application of memristors in microwave passive circuits", *Radioengineering*, vol. 24, no. 2, pp. 408–419, June 2015.

2) Y. Wu, Q. Jin, W. Wang, Y. Liu, "Asymmetrical passive intermodulation distortions of memristors with mathematical behavior models", *AIP Advances*, vol. 6, 105305 (11 pages), doi: 10.1063/1.4965924, 2016. 3) S. Vishnu, S. A. Saji, R. Rohit, V. N. Ramakrishnan, "Application of memristors in active filters", in Proc. *Third International Conference on Devices, Circuits and Systems* (ICDCS'16), 2016. pp. 84–88.	
A. Bage, S. Das, "A compact, wideband waveguide bandpass filter using complementary loaded split ring resonators", *Progress In Electromagnetics Research C*, vol. 64, pp. 51–59, 2016.	S. Stefanovski, M. Potrebić, D. V. Tošić, Z. Stamenković, "A novel compact dual-band bandpass waveguide filter", in Proc. *IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits & Systems* (DDECS), Belgrade, Serbia, April 22–24, 2015, pp. 51–56. M. Potrebić, D. V. Tošić, Z. Cvetković, N. Radosavljević, "WIPL-D modeling and results for waveguide filters with printed-circuit inserts", in Proc. *28th International Conference on Microelectronics* (MIEL 2012), Niš, Serbia, May 13-16, 2012, pp. 309–312.
F. Dincer, O. Akgol, M. Karaaslan, E. Unal, E. Demirel, C. Sabah, "New generation chiral metamaterials with small and flat chirality over a certain frequency band based on circular split ring resonators for microwave filter applications," *Modern Physics Letters B*, vol. 30, no. 08, pp. 1650114, 2016.	D. M. Miljanović, M. M. Potrebić, D. V. Tošić, Z. Stamenković, "Design of miniaturized bandpass filters using quasi-lumped multilayer resonators", *Journal of Circuits, Systems, and Computers*, vol. 23, no. 6, pp. 1450083 (21 pages), July 2014.
1) A. Bage, S. Das, "Compact Triple-Band Waveguide Bandpass Filter Using Concentric Multiple Complementary Split Ring Resonators", *Journal of Circuits, Systems and Computers*, vol. 26, no. 6, 1750096 (12 pages) 2017. 2) S. Upadhyay, C. Panchal, P K Atrey, R. Singh, "Development of Narrowband Microwave Bandpass Filter for Ku Band", in Proc. *IEEE WiSPNETconference*, 2016.	S. Stefanovski, M. Potrebić, D. V. Tošić, Z. Stamenković, "A novel compact dual-band bandpass waveguide filter", in Proc. *IEEE 18th International Symposium on Design and Diagnostics of Electronic Circuits & Systems* (DDECS), Belgrade, Serbia, April 22–24, 2015, pp. 51–56.
1) T. Haq, M. F. Khan, O. F. Siddiqui, "Design and implementation of waveguide bandpass filter using complementary metaresonator", *Applied Physics A*, 2016. doi:10.1007/s00339-015-9533-1 2) N. Purushothaman, A. Jain, W. R. Taube, R. Gopal, S. K. Ghosh, "Modeling and fabrication studies of negative permeability metamaterial for use in waveguide applications", *Microsyst Technol*, doi 10.1007/s00542-014-2402-6, Springer-Verlag Berlin Heidelberg, 2015.	S. Stefanovski, M. Potrebić, D. Tošić, "Design and analysis of bandpass waveguide filters using novel complementary split ring resonators", in Proc. *11th International Conference on Telecommunications in Modern Satellite, Cable and Broadcasting Services* (TELSIKS 2013), Niš, Serbia, Oct. 16–19, 2013, pp. 257–260.
1) H. Aliakbarian, P. J. Soh, S. Farsi, H. Xu, E. H. E. M. J. C. Van Lil, B. K. J. C. Nauwelaers, G. A. E. Vandenbosch, D. M. M.-P. Schreurs, "Implementation of a Project-Based Telecommunications Engineering Design Course", *IEEE Transactions on Education*, vol. 57, no. 1, pp. 25– 33, 2014. 2) J. A. Morente, A. Salinas, S. T.-Redondo, J. F.-Callejón, A. Méndez, J. Portí, "A new experiment-based way to introduce Fourier Transform and time domain–frequency domain duality", *IEEE Transactions on Education*, 2013.	M. M. Potrebić, D. V. Tošić, P. V. Pejović, "Understanding computation of impulse response in microwave software tools", *IEEE Transactions on Education*, vol. 53, no. 4, pp. 547–555, 2010.
1) V. D. Pavlović, "Explicit form of new class of extremal filter functions with mini-max behaviour of summed sensitivity function", *International Journal of Electronics*, vol. 100, no. 5, pp. 582–602, 2013. 2) Unated Statets Patent US 8,219,374 B1, I. Batarseh et al., Symbolic Swicth/Linear Circuit Simulator Systems and Methods, 2013.	D. V. Tošić, M. D. Lutovac, "Advances in symbolic simulation of systems", *The IPSI BgD Transactions on Advanced Research*, vol. 3, no. 1, pp. 9–14, Jan. 2007.
P. Wensing, *Real-time computer control of a prototype bipedal system*, B.Sc.Thesis, The Ohio State University, 2009.	M. D. Lutovac, D. V. Tošić, "Elliptic rational functions", *The Mathematica Journal*, vol. 9, no. 3, pp. 598–608, 2005.
Unated Statets Patent US 8,219,374 B1, I. Batarseh et al., Symbolic Swicth/Linear Circuit Simulator Systems and Methods, 2013. Patent # 8352397, Dependency graph in data-driven model, 2013. Patent US8620635, Composition of analytics models, US 8620635 B2, 2013. Patent US9342904, Composing shapes and data series in geometries, US 9342904 B2, 2015.	*SchematicSolver*, A *Mathematica* package for mixed symbolic-numeric analysis, processing, and design of analog and digital systems, distributed by Wolfram Research, Inc.

A. A. Keller, "Contribution of the Delay Differential Equations to the Complex Economic Macrodynamics", *WSEAS Transactions on Systems*, vol. 9, no. 4, pp. 358-371, Apr. 2010.	
A. P. de Moura, A. A.F. de Moura, D. S. Oliveira Jr., E. J. Fernandes, "Linear power flow V-theta", *Electric Power Systems Research*, vol. 84, pp. 45–57, 2012.	I. A. Škokljev, D. V. Tošić, "A new symbolic analysis approach to the DC load flow method", *Electric Power System Research Journal*, vol. 40, pp. 127–135, 1997.
N. S. Singh, A. Jain, A. Kapoor, "Determination of the solar cell junction ideality factor using special trans function theory (STFT)", *Solar Energy Materials and Solar Cells*, vol. 93, no. 8, pp. 1423-1426, Aug. 2009. doi: 10.1016/j.solmat.2009.03.013	S. M. Perovich, S. K. Simić, D. V. Tošić, S. I. Bauk, "On the analytical solution of some families of transcendental equations", *Applied Mathematics Letters*, vol. 20, no. 5, pp. 493-498, 2007.
1) J.W. Sander, T. Sander, "On the eigenvalues of distance powers of circuits", *Linear Algebra and its Applications*, vol. 432, pp. 3132-3140, 2010. doi: 10.1016/j.laa.2010.01.012 2) J. Goldwasser, X. Wang, Y. Wu, "Does the lit-only restriction make any difference for the σ -game and σ+-game?", *European Journal of Combinatorics*, vol. 30, pp. 774-787, 2009. 3) J. Shu, M. Zhai, "Survey on nullity of graphs", *Journal of East China Normal University* (Natural Science), no. 4, pp. 1-9, July 2009. 文章编号: 1000-5641(2009)04-0001-09	M. C. Marino, I. Sciriha, S. K. Simić, D. V. Tošić, "More about singular line graphs of trees", *Publications de L'Institut Mathematique*, Nouvelle Serie, tome 79 (93), pp. 1–12, 2006.
1) J. Lin, C.-W. Chen, "Computer-aided-symbolic dynamic modeling for Stewart-platform manipulator", *Robotica*, vol. 27, pp. 331–341, May 2009. doi: 10.1017/S0263574708004736 2) N. P. Karampetakis, A. I. G. Vardulakis, "Special issue on the use of computer algebra systems for computer aided control system design", *International Journal of Control*, vol. 79, no. 11, pp. 1313–1320, Nov. 2006. doi: 10.1080/00207170600882346	M. D. Lutovac, D. V. Tošić, "Symbolic analysis and design of control systems using *Mathematica*", *International Journal of Control*, Special Issue on the Use of Computer Algebra Systems for Computer Aided Control System Design, vol. 79, no. 11, pp. 1368–1381, Nov. 2006.
1) R. Matei, "Design of Adjustable Square-Shaped 2D IIR Filters", *ISRN Signal Processing*, vol. 2013, Article ID 796830 (10 pages), 2013. doi: 10.1155/2013/796830 2) R. Matei, D. Matei, "Analytical design of two-dimensional filters and applications in biomedical image processing", Ch. 11, F. P. G. Márquez, N. Zaman (Eds), Digital Filters and Signal Processing, *InTech*, 2013. doi: 10.5772/45654	D. V. Tošić, A. Mojsilović, M. Popović, "Symbolic approach to 2D biorthogonal diamond-shaped filter design", in *Proc. 21st International Conference on Microelectronics* MIEL'97, Niš, Serbia, Sep. 14-17, 1997, pp. 709–712.
1) C. H. P. Lorenz, *Mécanismes physiques et fondements théoriques de la récupération d'énergie micro-ondes ambiante pour les dispositifs sans fil à faible consommation*, Maîtrise ès Sciences Appliquées, Université de Montréal, 2015. 2) J. Izydorczyk, "Notes on lossy transmission lines", *IEEE Antennas And Propagation Magazine*, vol. 50, no. 5, pp. 170–175, Oct. 2008. 3) T. Nakura, M. Ikeda, K. Asada, "Stub vs. capacitor for power supply noise reduction", *IEICE Transactions on Electronics*, vol. E88–C, no.1, pp. 125–132, Jan. 2005.	A. R. Djordjević, A. G. Zajić, D. V. Tošić, T. Hoang, "A Note on the Modeling of Transmission-Line Losses", *IEEE Transactions on Microwave Theory And Techniques*, vol. 51, no. 2, pp. 483–486, Feb. 2003.
1) N. S. Singh, A. Jain, A. Kapoor, "Determination of the solar cell junction ideality factor using special trans function theory (STFT)", *Solar Energy Materials and Solar Cells*, vol. 93, no. 8, pp. 1423–1426, Aug. 2009. doi: 10.1016/j.solmat.2009.03.013 2) M. Tadeusiewicz, S. Halgas, "Tracing AM-detector transfer characteristics", *COMPEL - The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 24, no. 4, pp. 1439–1449, 2005. 3) S. Loyka, "Simple formula for AM-detector transfer factor", *Electronics Letters*, vol. 35, no. 2, pp. 126–127, Jan. 1999.	S. M. Perovich, D. V. Tošić, "Transcendental method in nonlinear circuit theory", *Electronics Letters*, vol. 32, no. 16, pp. 1433–1434, Aug. 1996.
V. S. Reddy, R. Garg, "An improved extended FDTD formulation for active microwave circuiits", *IEEE Transactions on Microwave Theory And Techniques*, vol. 47, no. 9, pp. 1603–1608, Sep. 1999.	A. R. Djordjević, B. D. Reljin, D. V. Tošić, T. K. Sarkar, "Transmission-line theory approach to solution of state equations for linear lumped circuits", *IEEE Transactions on Microwave Theory And Techniques*, vol. 44, no. 3, pp. 479–482, Mar. 1996.
J. Fliege, "Gap-free computation of Pareto-points by quadratic scalarizations", *Mathematical Methods of Operations Research*, ISSN: 1432-2994, vol. 59, no. 1, pp. 69–89, Feb. 2004.	M. Valliappan, B. L. Evans, M. Gzara, M. D. Lutovac, D. V. Tošić, "Joint Optimization of Multiple Behavioral and Implementation Properties of Digital IIR Filter Designs", in *Proc. IEEE Int. Symp. Circ. Syst., ISCAS 2000*, Geneva, Switzerland, May 28-31, 2000, vol. IV, pp. 77–80.
D. V. Alyoshin, A.T. Mingazin, "EXTREMAL: A computer program finding extreme parameters of digital and analog filters", *DSPA*, vol. 1, pp. 135–138, Mar. 29-31, 2006.	D. V. Tošić, M. D. Lutovac, B. L. Evans, "Advanced digital filter design," in *Proc. 1999 European Conference on Circuit Theory and Design ECCTD'99*, Stresa, Italy, Sep. 1999, vol. 2, pp. 1323–1326.

T. Kalmar-Nagy, "A novel method for efficient numerical stability analysis of delay-differential equations", in *Proc. of the American Control Conference*, vol. 4, 2005, pp. 2823–2826.	D. V. Tošić, M. D. Lutovac, "Symbolic computation of impulse, step and sine response of linear time-invariant systems", in *Proc. 10th Int. Symp. Theoretical Electrical Engineering ISTET'99*, Magdeburg, Germany, Sep. 1999, pp. 653–657.
1) C. A. Corral, C. S. Lindquist, "Design for optimum classical filters", *IEE Proceedings: Circuits, Devices and Systems*, vol. 149, no. 5-6, Oct. 2002, pp. 291–300. 2) M. Bhattacharya, T. Saramaki, "Multiplierless implementation of bandpass and bandstop recursive digital filters", in *Proc. IEEE Int. Symp. Circ. Syst., ISCAS*, vol. 2, 2002, pp. 692–695. 3) M. Bhattacharya, T. Saramaki, "Multiplierless implementation of all-pole digital filters", in *Proc. IEEE Int. Symp. Circ. Syst., ISCAS*, vol.2, 2002, pp. 696–699. 4) M. Bhattacharya, T. Saramaki, "Multiplierless implementation of bandpass and bandstop IIR digital filters", in Proc. *IEEE Int. Conf. Acoustics, Speech, Signal Processing, ICASSP*, vol. 3, 2002, pp. 3184–3187. 5) M. Bhattacharya, T. Saramaki, J. Astola, "Multiplierless realization of recursive digital filters", in *Proc. Int. Symp. Image, Sig. Proc., Analysis*, Pula, Croatia, 2001, pp. 469–474.	M. D. Lutovac, D. V. Tošić, and B. L. Evans, "Advanced Filter Design", in *Proc. 31st IEEE Asilomar Conf. on Signals, Systems, and Computers*, Pacific Grove, CA, USA, Nov. 3-5, 1997, vol. I, pp. 710–715.
M. F. Hribšek, "Simple allpass sections with complex poles and zeroes", *IEE Proc. Circuits Devices Syst.*, vol. 142, no. 5, pp. 273–276, Oct. 1995.	D. V. Tošić, B. D. Reljin, "SALEC - Programski paket za simboličku analizu linearnih vremski nepromenljivih električnih kola pomoću računara", *CAD FORUM'95*, 1995, pp. 359-366. D. V. Tošić, I. M. Markoski, B. D. Reljin, "Simbolička analiza linearnih električnih kola", *XXXVII ETAN*, 1993, pp. III.3–III.8.
Ljiljana Milić, Zoran Dobrosavljević, *Uvod u digitalnu obradu signala*, Elektrotehnički fakultet, Beograd, 1999.	M. D. Lutovac, D. V. Tošić, and B. L. Evans, "Design space approach to advanced filter design", *TELSIKS'97*, 1997. M. D. Lutovac and D. V. Tošić, "Digital filter design using MATLAB and *Mathematica*", *TELFOR'98*, 1998, pp. 354–359.
L. P. Huelsman, "DRAWFILT - Drawing Filter Realizations in MATLAB", *IEEE Circuits & Devices*, vol. 17, no. 1, pp. 3–4, 2001.	*DrawFilt* software, 2001.
C. Alippi, S. Ferrari, V. Piuri, "A methodology for example-based specification and design", in *Proc. IEEE-INNS-ENNS International Joint Conference on Neural Networks (IJCNN'00)*, vol. 3, 2000, pp. 3535–3540.	B. Lu, B. L. Evans, D. V. Tošić, "Simulation and Synthesis of Artificial Neural Networks Using Dataflow Models in Ptolemy", in *Proc. 4th Seminar on Neural Network Applications in Electrical Engineering, NEUREL-97*, Belgrade, 1997, pp. 84–89.
P. Wambacq, G. Gielen, W. Sansen, "Symbolic network methods for practical analog integrated circuits: A surway", in *Proc. 4th SMACD'96*, Leuven, Belgium, 1996, pp. 3–23.	D. V. Tošić, "SALECAS - a package for symbolic analysis of linear circuits and systems", in *Proc. 4th SMACD'96*, 1996, Leuven, Belgium, pp. 227–230.

Следећи радови цитирају S. K. Simić, D. V. Tošić, "The index of trees with specified maximum degree", *MATCH - Communications in Mathematical and in Computer Chemistry*, vol. 54, no. 2, pp. 351–362, 2005.

X. Du, L. Shi, "Trees with given maximum degree minimizing the spectral radius", *Electronic Journal of Linear Algebra*, vol. 31, pp. 335–361, June 2016. [ref. 14]

A. Ilic, I. Gutman, "Eccentric connectivity index of chemical trees", *MATCH - Communications in Mathematical And in Computer Chemistry*, vol. 65, no. 3, pp. 731–744, 2011.

C. Heuberger, S. G. Wagner, "Asymptotics of the extremal values of certain graph parameters in trees with bounded degree", *Publicationes Mathematicae-Debrecen*, vol. 77, no. 3-4, pp. 347–367, Jun 2010.

X. Y. Yuan, Y. Chen, "Some results on the spectral radii of bicyclic graphs", *Discrete Mathematics*, vol. 310, no. 21, pp. 2835–2840, Nov. 2010. doi: 10.1016/j.disc.2010.06.031

D. Stevanovic, A. Ilic, "Distance spectral radius of trees with fixed maximum degree", *Electronic Journal of Linear Algebra*, vol. 20, pp. 168-179, Mar. 2010.

A. Ilic, D. Stevanovic, "The Estrada index of chemical trees", Journal of Mathematical Chemistry, vol. 47, no. 1, pp. 305–314, Jan. 2010. doi: 10.1007/s10910-009-9570-0

D. Cvetković, T. Davidović, "Application of some graph invariants to the analysis of multiprocessor interconnection networks", *Yugoslav Journal of Operations Research*, vol. 18, no. 2, pp. 173–186, 2008. doi: 10.2298/YUJOR0802173C

A. Yu, M. Lu, "Laplacian spectral radius of trees with given maximum degree", *Linear Algebra and its Applications*, vol. 429, no. 8-9, pp. 1962–1969, Oct. 2008. doi: 10.1016/j.laa.2008.05.028

S. Radenkovic, I. Gutman, "Relation between Wiener index and spectral radius", *Kragujevac J. of Science*, no. 30, pp. 57–64, 2008.

I. Gutman, S. Radenkovic, B. Furtula, T. Mansour, M. Schork, "Relating Estrada index with spectral radius", *Journal of the Serbian Chemical Society*, vol. 72, no. 12, pp. 1321–1327, 2007. doi: 10.2298/JSC0712321G

I. Gutman, B. Furtula, V. Markovic, B. Glisic, "Alkanes with greatest Estrada index", *Zeitschrift Fur Naturforschung* Section A-A Journal of Physical Sciences, vol. 62, no. 9, pp. 495-498, Sep. 2007.

W. S. Lin, X. F. Guo, "On the largest eigenvalues of trees with perfect matchings", *Journal of Mathematical Chemistry*, vol. 42, no. 4, pp. 1057–1067, Nov. 2007. doi: 10.1007/s10910-006-9161-2

6. Наставна делатност

На Електротехничком факултету Универзитета у Београду предаје следеће предмете: на основним студијама *Теорија електричних кола* и *Микроталасна пасивна кола*, на мастер студијама *Пројектовање микроталасних филтара*, а на докторским студијама *РФ и микроталасни филтри* и *Микроталасна пасивна кола*.

Учествовао је у настави основних студија на следећим предметима: *Електромагнетика*, *Микроталасна техника*, *Практикум из Основа електротехнике 2*, *Лабораторијске вежбе из Основа електротехнике*, *Радиолокација и навигација*, и Употреба програма MATLAB у дигиталној обради сигнала (за стране студенте).

Био је у настави на ВВТВА Жарково на предметима *Микроталасна техника* и *Теорија електричних кола*.

Оцена педагошког рада на студентским анкетама је увек била већа од 4 (највећа оцена 5). Добитник је два признања за успех у наставно-педагошком раду:

1) Одлуком Већа студената Електротехничког факултета у Београду, у оквиру избора наставника године, добио је *Захвалницу за педагошки рад* 1992. године,

2) Одлуком начелника Војнотехничке академије Војске Југославије, поводом дана војних школа Војске Југославије, добио је *Захвалницу за успешну наставну сарадњу са Војнотехничком академијом Војске Југославије* 1997. године.

Учествовао је у комисијама за магистарске радове, дипломске радове, завршне радове и мастер радове.

Ментор је две докторске дисертације одбрањене на Електротехничком факултету, чији су аутори промовисани на Универзитету у Београду:

1) Милка Потребић, *Микроталасни филтри са локализованим импулсним одзивом у техници микротракастих водова*, 2009.

2) Здравко Живковић, *Нови приступ у процесирању РФ и МФ сигнала ПАТ елементима*, 2014.

Организовао је стручни семинар и такмичење на Електријади 1993/94, а студентска екипа коју је он водио освојила је прво место у такмичењу из Теорије електричних кола.

Радио је на реорганизацији лабораторије и лабораторијских вежби из *Микроталасне технике*.

7. Друштвена активност

Дејан Тошић је шеф *Катедре за општу електротехнику*, у два мандата, од 2013. године до сада.

Био је заменик шефа Катедре, секретар Катедре, члан Комисије за прославу Дана Факултета, технички уредник годишњака Електротехничког факултета, руководилац Комисије за техничку припрему пријемног испита, члан Комисије за нормативна акта и члан Комисије за статут, председник Дисциплинске комисије. Члан је Универзитетске дисциплинске комисије.

Члан је Друштва за телекомуникације, Друштва ЕТРАН и Друштва за операциона истраживања. Био је секретар секције ЕК и руководилац Комисије за техничку организацију ЕТРАН`96. Био је vice-chairman међународне конференције EUROCON'2005. Био је у организационом одбору конференције MAGT'2006.

Организовао је међународни скуп на коме је био председавајући: 5th IEEE European Conference on Circuits and Systems for Communications (ECCSC'10), Nov. 23–25, 2010, Belgrade, Serbia.

Био је национални представник COST-TIST (representative for Technical Committee of Telecommunication Information Science and Technology for Serbia and Montenegro, COST – intergovernmental framework for European Co-operation in the field of Scientific and Technical Research). Био је члан акције COST Action 276, Information and Knowledge Management for Integrated Media Communication Systems, 2002.–2005.

Члан је акције COST, Action IC1401, Memristors – Devices, Models, Circuits, Systems and Applications (MemoCiS), 2014–2018. [online] http://www.cost.eu/domains_actions/ict/Actions/IC1401

Сарађује са корпорацијом Wolfram Research, Inc., USA, у оквиру пројекта Advanced Signal Processing Pack, и добио је *Mathematica* Visiting Scholar Grant 2001.–2002.

Рецензент је неколико међународних часописа (IEEE Trans. CAS I, International Journal of Control, Journal of The Franklin Institute и других).

Рецензент је и члан програмског одбора конференције IASTED CSS (IASTED International Conference on Circuits, Signals, and Systems, 2003-2006).

Рецензент је универзитетских уџбеника монографија.

8. Научно-стручна и педагошка делатност

Основне области научно-истраживачког рада Дејана Тошића су следеће: 1) симболичка анализа и пројектовање линеарних електричних кола, посебно филтара, 2) аналогни електрични филтри, посебно РФ и микроталасни филтри, 3) електрична кола са мемристорима.

Најзначајнији рад је истакнута монографија међународног значаја, на енглеском језику, коју је публиковала водећа издавачка кућа Prentice Hall. Монографија даје оригиналан приступ и садржаје теорије електричних филтара, оригиналну нумеричко-симболичку методологију пројектовања филтара и одговарајуће изворне програмске кодове за *Mathematica* и MATLAB. Монографија је преведена на кинески језик 2004. године, а користи се као уџбеник на америчким и кинеским универзитетима. Монографију цитира и познати софтвер за симулацију микроталасних кола NI AWR Microwave Office, као и MATLAB.

Други важан допринос је *SchematicSolver*, софтвер за симболичку анализу и пројектовање дискретних и континуалних система, имплементиран као *Mathematica* package. *SchematicSolver* је софтверски производ, резултат наставка истраживања започетог у докторату Дејана Тошића, а дистрибуира га водећа светска компанија за симболичку математику Wolfram Research, Inc.

Одзив на радове обухвата више од 200 цитата (не рачунајући аутоцитате и цитате на кинеском језику). Цитира се монографија, радови у часописима, софтвер и радови на конференцијама.

Своје истраживачке резултате Дејан Тошић је представио кроз више предавања по позиву, у земљи и иностранству. Истовремено, успоставио је сарадњу са универзитетом у Остину, Тексас, САД и са универзитетом Џорџијатек, Атланта, Џорџија, САД. Сарађује са водећом светском компанијом за симболичку математику и симболички софтвер Wolfram Research, Inc.

Учествовао је, а и сада учествује, у пројектима Министарства за науку Републике Србије.

Учествовао је у међународном пројекту, Applications of graph spectra in Computer Science (Aplicações da Teoria Espectral dos Grafos em Ciências de Computação), 451-03-02338/2012-14/17, у оквуру билатералне сарадње са Португалијом (Universidade de Aveiro, Universidade de Coimbra), 2013–2014 године.

Наставне, педагошке и остале школске делатности обавља савесно, успешно и квалитетно. Добро саобраћа са студентима и млађим сарадницима и спреман је да им у сваком тренутку помогне. У свим досадашњим оцењивањима од стране студената добијао је високе оцене за рад.

У оквиру избора наставника године, добио је Захвалницу за педагошки рад 1992. године. Добио је Захвалницу за успешну наставну сарадњу са ВТА ВЈ 1997. године.

Уџбеници, чији је Дејан Тошић (ко)аутор, успешно представљају материју предмета, а користе се не само на Електротехничком факултету у Београду, већ и на другим факултетима у земљи и околним државама.

Београд, 3. мај 2017. године

Дејан Тошић