Научно стручно веће за техничко - технолошке науке

Предмет: Образац о испуњавању услова за избор у звање наставника

Ime i prezime

Nataša Maleš-Ilić

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16 / 6 / 1968

Naziv i sedište ustanove/organizacije u kojoj je kandidat zaposlen

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Datum raspisivanja konkursa

06.10.2015

Način (mesto) objavljivanja

u dnevnom listu "Narodne novine"

Zvanje za koje je raspisan konkurs

Vanredni profesor ili redovni profesor

Uža naučna oblast

Telekomunikacije

Odaberite oblast

Ostale oblasti

1. Naučni stepen doktora nauka iz uže naučne oblasti za koju se bira
(naziv doktorske disertacije, naučna oblast, godina i mesto odbrane)

Nataša Maleš-Ilić, "Amplifiers with Improved Intermodulation Performances for Multichannel Applications", PhD thesis, University of Westminster, London, UK 2003. Nostrifikacija 21.10.2004. na Elektronskom fakultetu, Univerziteta u Nišu pod naslovom "Pojačavači sa poboljšanim intermodulacionim performansama za višekanalne primene"

2. Sposobnost za nastavni rad
(naziv dokumenta, naziv ustanove/organizacije koja je izdala dokument, datum izdavanja)

Dokument će biti dostupan sa izveštajem komisije za izbor koji se usvaja na Nastavno-naučnom veću Elektronskog fakulteta u Nišu

3. Ostvarene aktivnosti bar u četiri elementa doprinosa široj akademskoj zajednici iz člana 4. kriterijuma (opis aktivnosti, podaci o dokumentima)

Dr Nataša Maleš-Ilić je u toku svog rada na Elektronskom fakultetu u Nišu bila angažovana na izvođenju nastave na osnovnim, master i doktorskim studijama iz niza predmeta koje je aktivno inovirala ili uvodila u nastavu.
Aktivno je učestvovala u procesu akreditacije modula Telekomunikacije u okviru studijskog programa Elektrotehnika i Računarstvo na Elektronskom fakultetu u Nišu.
U svom stručnom i naučnom radu aktivno je učestvovala u većem broju projekata Ministarstva nauke Republike Srbije i međunarodnim projektima.
Učestvovala je u recenziranju radova naučnih časopisa i konferencija. Član je i organizacionog odbora IEEE konferencije TELSIKS. Učestvovala je na mnogim naučnim skupovima i konferencijama.

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4. Ostvarene rezultati u razvoju naučno-nastavnog podmlatka na fakultetu

Nataša Maleš-Ilić je u toku svog nastavnog angažovanja bila mentor na velikom broju diplomskih radova. Učestovala je u većem broju komisija za odbranu doktorskih teza. Bila je mentor studenta koji je nagrađen stipendijom MTT-S Undergraduate Scholarship za prolećni ciklus 2014. Takođe, bila je mentor studentima koji su učestvovali na četiri Internacionalne studentske konferencije IEEESTEC na Elektronskom fakultetu. Pomagala je mlađim kolegama u naučnom, stručnom i pedagoškom radu i usmeravala u izvršenju projektnih zadataka u okviru naučno-istraživačkih projekata.

5. Originalno stručno ostvarenje (projekat, studije), odnosno, rukovođenje ili učešće u naučnim projektima

Dr Nataša Maleš-Ilić je u celom periodu bila aktivno angažovana u naučno-istraživačkim projektima:

1. Satelitska i kablovska televizija i televizija visoke rezolucije, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 1994-1997, finansiran od strane Ministarstva za nauku i tehnologiju Republike Srbije.

2. Elektromagnetika, mikrotalasna tehnika i optičke komunikacije, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 1991-1995, 1996-2000, finansiran od strane Ministarstva za nauku i tehnologiju Republike Srbije.

3. Razvoj telekomunikacionih uređaja i softvera za radiodifuzne, kablovske i satelitske sisteme, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 2000-2001, finansiran od strane Ministarstva za nauku i tehnologiju Republike Srbije.

4. Razvoj širokopojasnoh bežičnih distribucionih sistema, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 2002-2004, Program istraživanja u oblasti tehnološkog razvoja finansiran od strane Ministarstva za nauku i tehnologiju Republike Srbije i kasnije Ministarstva za nauku i zaštitu životne sredine.

5. Digitalni bezični i optički komunikacioni sistemi, Rukovodilac projekta: Prof. dr Aleksandar Nešić, Institut IMTEL, Beograd, 2002-2004, Program istraživanja u oblasti tehnološkog razvoja finansiran od strane Ministarstva za nauku i tehnologiju Republike Srbije i kasnije Ministarstva za nauku i zaštitu životne sredine.

6. Razvoj softverske i hardverske podrške za potrebe telekomunikacionih pristupnih mreža, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 2005-2007, Program istraživanja u oblasti tehnološkog razvoja sa participacijom u novcu finansiran od strane Ministarstva za nauku i zaštitu životne sredine.

7. Nova generacija liknova, Rukovodilac projekta: Prof. dr Aleksandar Nešić, Institut IMTEL, Beograd, 2005-2007, Program istraživanja u oblasti tehnološkog razvoja finansiran od strane Ministarstva za nauku i zaštitu životne sredine.

8. Linkovi na milimetarskim opsezima (60 GHz) ultravisokog kapaciteta 1 Gbit/s, Rukovodilac projekta: Milan Šunjevarić, Institut IMTEL-Komunikacije A.D., Beograd, 2008-2010, Program istraživanja u oblasti tehnološkog razvoja finansiran od strane Ministarstva za nauku.

9. Razvoj novih modela i mikrotalasnih sklopova i uređaja za primenu u sistemima bežičnih komunikacija, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 2008-2010, Program istraživanja u oblasti tehnološkog razvoja finansiran od strane Ministarstva za nauku.
Dr Nataša Maleš-Ilić je trenutno angažovan na projektima Ministarstva prosvete, nauke i tehnološkog razvoja u oblasti

tehnološkog razvoja:

10. Istraživanje i razvoj rešenja za poboljšanje performansi bežičnih komunikacionih sistema u mikrotalasnom i milimetarskom opsegu frekvencija, Rukovodilac projekta: Prof. dr Bratislav Milovanović, Elektronski fakultet, Niš, 2010-2014.
11. Razvoj digitalnih tehnologija i umreženih servisa u sistemima sa ugrađenim elektronskim komponentama, Rukovodilac projekta: Prof. dr Miodrag Temerinac, Fakultet tehničkih nauka, Novi Sad, 2010-2014.

Nataša Maleš-Ilić je učestvovala u međunarodnim projektima u oblasti obrazovanja:

1. Development of Master Study Programmes in Telecommunications and Control, Joint European Project, Tempus JEP_41112_2006, 2007-2009, Grant holder: Prof. Dr Nikolaos Uzunoglu, Faculty of Electrical and Computer Engineering, National Technical University of Athens, Grant co-ordinator: Prof. dr Vera Marković, Elektronski fakultet, Niš.

2. WUS Austria CDP+ 104/2006 finansiranog od strane Austrian Cooperation.

3. Rukovodilac projekta pod nazivom: Razvoj linearizavione tehnke za širokopojasne i/ ili dual band pojačavače snage za primene u zemaljskim mikrotalasnim linkovima koji je finansiran od strane bilateralnog programa zajedničkog unapređenja razmene učesnika na projektima između Republike Srbije i Savezne Republike Nemačke - DAAD 2013-2014.

4. Učesnik projekta EUROWEB- koordinator Mälardalen University, Sweden, finansiran od strane European Commission u okviru Erasmus Mundus Action 2 programa

5. Mentor studenta koji je nagrađen stipendijom MTT-S Undergraduate Scholarship za prolećni ciklus 2014.

6. Objavljeni udžbenik ili monografija

1. Bratislav Milovanović, Vera Marković, Nataša Maleš-Ilić, Olivera Pronić-Rančić, Mikrotalasna tehnika deo-I, Elektronski fakultet-Niš, 2009, ISBN 978-86-6125-005-7. www.elfak.ni.ac.rs

2. Olivera Pronić-Rančić, Vera Marković, Nataša Maleš-Ilić, Bratislav Milovanović, Mikrotalasna elektronika, Elektronski fakultet-Niš, 2013, ISBN 978-86-6125-081-1., www.elfak.ni.ac.rs

7. Od izbora u prethodno zvanje najmanje jedan rad objavljen u časopisu koji izdaje Univerzitet u Nišu ili fakultet Univerziteta u Nišu, u kojem je prvopotpisani autor rada

1. Nataša Maleš-Ilić, Aleksandra Đorić, Aleksandar Atanasković: "Linearization of broadband two-way microstrip Doherty amplifier", accepted for publication in FACTA UNIVERSITATIS (NIS), Series: Electronics and Energetics, University of Niš, Serbia.

8. Od izbora u prethodno zvanje najmanje dva rada u časopisima sa SCI liste u kojima je prvopotpisani autor rada (podaci o naučnom radu,DOI broj)

1. Nataša Maleš-Ilić, Aleksandar Atanasković, Kurt Blau, Mathias Hein, "Linearization of Asymmetrical Doherty Amplifier by the Even-Order Nonlinear Signals", accepted for publication in International Journal of Electronics, Taylor & Francis, DOI: 10.1080/00207217.2015.1104727.: http://dx.doi.org/10.1080/00207217.2015.1104727, M23.

2. Aleksandar Atanasković, Nataša Maleš-Ilić, Bratislav Milovanović: "Linearization of power amplifiers by second harmonics and fourth-order nonlinear signals", Microwave and Optical Technology Letters, Wiley Periodicals, Inc., A Wiley Company, Vol.55, Issue 2, pp.425-430, February 2013, ISSN: 0895-2477, Online ISSN: 1098-2760, DOI: 10.1002/mop.27294, http://onlinelibrary.wiley.com/doi/10.1002/mop.27294/abstract, M23.

9. Veći broj naučnih radova i saopštenja iznetih na međunarodnim i domaćim naučnim skupovima

1. Natasa Maleš-Ilić, Aleksandar Atanasković, Bratislav Milovanović: "Linearization of Three-Stage Doherty Amplifier", Computational Engineering In Systems Applications - Volume II - Proceedings of International Conference on Energy, Environment, Economics, Devices, Systems, Communications, Computers, Iasi, Romania, July 1-3, IAASAT Press, pp.188-193, 2011, ISSN: 2223-9812, ISBN: 978-1-61804-014-5, http://www.wseas.com.

2. Aleksandar Atanasković, Natasa Maleš-Ilić, Bratislav Milovanović: "Linearization of two-way Doherty amplifier", EuMIC 2011-The 6th European Microwave Integrated Circuits Conference, European Microwave Week 2011 Conference Proceedings on CD, Manchester, UK, October 10-11, EuMA 2011, poster01-17, pp.304-307, 2011, ISBN:978-2-87487-023-1,

http://ieeexplore.ieee.org.

3. Natasa Maleš-Ilić, Aleksandar Atanasković, Bratislav Milovanović: "Linearization of Two-way Doherty Amplifier by Injection of Second and Fourth Order Nonlinear Signals at the Input and Output of the Carrier Cell", Proceedings of the 10th International Conference on Telecommunications in Modern Cable, Satellite and Broadcasting Services - TELSIKS 2011, Niš, Serbia, October 5-8, IEEE and Faculty of Electronic Engineering, Vol.1, pp.226-229, 2011, ISBN:978-1-4577-2016-1, http://ieeexplore.ieee.org.

4. Atanasković Aleksandar, Maleš-Ilić Nataša, Milovanović Bratislav: „Linearization of Asymmetrical Two-way Doherty Amplifier", Proceedings of 20th Telecommunications Forum, TELFOR2012, Belgrade, Serbia, 20-22. November, Telecommunication Society, pp.369-372(3.18), 2012, ISBN: 978-1-4673-2984-2, http://ieeexplore.ieee.org.

5. Aleksandar Atanasković, Kurt Blau, Nataša Maleš-Ilić, Aleksandra Đorić: "Two-way Doherty Amplifier – Asymmetry Analysis and Linearization", Proceedings of XLVIII International Scientific Conference on Information, Communication and Energy Systems and Technologies - ICEST2013, Ohrid, Republic of Macedonia, June 26-29, Faculty of Technical Sciences, Vol.1, pp.53-56, 2013, ISBN: 978-9989-786-90-7.

6. Aleksandra Đorić, Aleksandar Atanasković, Nataša Maleš-Ilić, Bratislav Milovanović: "Linearization of Microwave Power Amplifier for Broadband Applications", Proceedings of XLVIII International Scientific Conference on Information, Communication and Energy Systems and Technologies - ICEST2013, Ohrid, Republic of Macedonia, June 26-29, Faculty of Technical Sciences, Vol.1, pp.65-68, 2013, ISBN: 978-9989-786-90-7.

7. Aleksandar Atanasković, Nataša Maleš Ilić, Kurt Blau, Aleksandra Đorić: "A Novel Linearization Technique Based on Modified Baseband Signal that Modulates Carrier Second Harmonic", Proceedings of the 11th International Conference on Telecommunications in Modern Cable, Satellite and Broadcasting Services - TELSIKS 2013, Niš, Serbia, October 16-19, IEEE and Faculty of Electronic Engineering, Vol.1, pp.192-195, 2013, ISBN: 978-1-4799-0900-1, http://ieeexplore.ieee.org.

8. Aleksandra Đorić, Nataša Maleš-Ilić, Aleksandar Atanasković, Bratislav Milovanović: "Linearization of Broadband Doherty Amplifier", Proceedings of the 11th International Conference on Telecommunications in Modern Cable, Satellite and Broadcasting Services - TELSIKS 2013, Niš, Serbia, October 16-19, IEEE and Faculty of Electronic Engineering, Vol.2, pp.509-512, 2013, ISBN: 978-1-4799-0900-1, http://ieeexplore.ieee.org.

9. Aleksandra Đorić, Nataša Maleš-Ilić, Aleksandar Atanasković: "Analysis of Linearization Circuit Impact on Broadband Doherty Amplifier Performances", Proceedings of the 1st International Conference on Electrical, Electronic and Computing Engineering - IcETRAN 2014, Serbia, Vrnjačka Banja, June 2-5, ETRAN Society, MTI 2.4, 2014, ISBN: 978-86-80509-70-9.

10. Aleksandra Đorić, Aleksandar Atanasković, Nataša Maleš-Ilić, Bratislav Milovanović and Kurt Blau: "Broadband Microstrip Doherty Amplifier Design and Linearization", Proceedings of XLIX International Scientific Conference on Information, Communication and Energy Systems and Technologies - ICEST2014, Serbia, Niš, June 25 - 27, University of Niš, Faculty of Electronic Engineering, Vol.1, pp.131-134, 2014, ISBN: 978-86-6125-108-5.

11. Jugoslav Joković, Tijana Dimitrijević, Aleksandar Atanasković, Nataša Maleš-Ilić and Bratislav Milovanović: "TLM Modeling of Emissions from Printed Circuit Board of Power Amplifier Matching Circuits", Proceedings of X International Symposium of Industrial Electronics INDEL–2014, Banja Luka, Republic of Srpska, Bosnia and Herzegovina, November 6-8, University of Banja Luka, Faculty of Electrical Engineering, pp.253-256, 2014, ISBN: 978-99955-46-22-9.

12. Mijušković Jelena, Bukvić Branko, Nešković Nataša, Maleš-Ilić Nataša, Budimir Djuradj, "Compensation of Nonlinear Distortion in RF Power Amplifiers by Injection for LTE Applications", Proceedings of 22nd Telecommunications Forum-TELFOR2014 on CD, Telecommunications Society, pp. 352-355, Belgrade, 2014, ISBN: 978-1-4799-6190-0.

13. Aleksandar Atanasković, Aleksandra Đorić, Nataša Maleš-Ilić: "Influence of the Second Harmonic Impedance at the Transistor Drain on the Efficiency of RF Power Amplifier", Proceedings of the 2nd International Conference on Electrical, Electronic and Computing Engineering - IcETRAN 2015, Silver Lake (Srebrno Jezero), Serbia, June 8-11, ETRAN Society, MTI 2.5, 2015, ISBN: 978-86-80509-71-6.

14. Aleksandra Đorić, Aleksandar Atanasković, Nataša Maleš-Ilić" Linearization and efficiency enhancement of the RF Power Amplifier by the even-order nonlinear signal injection", Proceedings for 12th International Conference on Telecommunications in Modern Cable, Satellite and Broadcasting Services - TELSIKS 2015, Niš, Serbia, October 14-16, IEEE and Faculty of Electronic Engineering, Vol.1, pp.106-109, 2015, ISBN: 978-1-4673-7514-6, http://ieeexplore.ieee.org.

15. Aleksandar Atanasković, Nataša Maleš Ilić, Aleksandra Đorić, Marko Živanović, "Power Amplifier Linearization by Modified Baseband Signal Injection", Proceedings for 12th International Conference on Telecommunications in Modern Cable, Satellite

and Broadcasting Services - TELSIKS 2015, Niš, Serbia, October 14-16, IEEE and Faculty of Electronic Engineering, Vol.1, pp.102-105, 2015, 978-1-4673-7514-6, http://ieeexplore.ieee.org..

16. Aleksandar Atanasković, Nataša Maleš-Ilić: "Linearizacija Three-Way Doherty pojačavača za širokopojasne signale", Elektronski zbornik radova 54 konferencije ETRAN 2010 na CD-u, Donji Milanovac, Srbija, 7-10. Jun, Društvo za ETRAN, MT1.8, 2010, ISBN: 978-86-80509-65-5.

17. Aleksandar Atanasković, Nataša Maleš-Ilić, Bratislav Milovanović „Linearization of Three-Way Doherty Amplifier with Harmonic Control Circuits", VIII simpozijum INDUSTRIJSKA ELEKTRONIKA - INDEL2010, Banja Luka, Republika Srpska, BiH, 4-6. Novembar, Elektrotehnički fakultet Banja Luka, 2010.

18. Atanasković Aleksandar, Maleš-Ilić Nataša, Milovanović Bratislav: „Linearization of harmonic controlled three-stage Doherty amplifier", Elektronski zbornik radova 18 Telekomunikacionog foruma na CD-u - TELFOR2010, Beograd, Srbija, 23-25. Novembar, Društvo za Telekomunikacije, 7.1, 2010, ISBN:978-86-7466-392-9, http://www.telfor.rs.

19. Aleksandar Atanasković, Nataša Maleš-Ilić, Bratislav Milovanović: "Realization of Two-Way Doherty Amplifier with Linearization Circuit", Zbornik radova XVII konferencije o računarskim naukama i informacionim tehnologijama – YU INFO 2011 na CD-u, Kopaonik, Srbija, 6-9. Mart, Univerzitet u Nišu, 2011, ISBN:978-86-85525-08-7, http://www.e-drustvo.org/yuinfo/

20. Aleksandar Atanasković, Nataša Maleš-Ilić: "Poboljšanje Linearnosti Two-Way Doherty Pojačavača Korišćenjem Nelinearnih Produkata Drugog i Četvrtog Reda", Elektronski zbornik radova 55 konferencije ETRAN 2011 na CD-u, Banja Vručica (Teslić), Bosnia and Herzegovina, 6-9. Jun, Društvo za ETRAN, MT3.1, 2011, ISBN:978-86-80509-66-2.

21. Aleksandar Atanasković, Nataša Maleš-Ilić: "Linearizacija asimetričnog two-way Doherty pojačavača za primene u GSM900 sistemima", Elektronski zbornik radova 56 konferencije ETRAN 2012 na CD-u, Zlatibor, Srbija, 11-14. Jun, Društvo za ETRAN, MT5.3, 2012, ISBN: 978-86-80509-67-9.

22. Aleksandar Atanasković, Nataša Maleš-Ilić, Djuradj Budimir, Bratislav Milovanović: "Uticaj nebalansnosti I/Q modulatora na nelinearna izobličenja pojačavačkog stepena predajnika", Zbornik radova XIX konferencije o računarskim naukama i informacionim tehnologijama – YU INFO 2013 na CD-u, Kopaonik, Srbija, 3-6. Mart, Univerzitet u Nišu, str.419-422, 2013, ISBN:978-86-85525-11-7, http://www.e-drustvo.org/yuinfo/.

23. Aleksandra Đorić, Nataša Maleš-Ilić, Aleksandar Atanasković, Bratislav Milovanović: "Linearizacija Širokopojasnog Mikrotalasnog Pojačavača Snage", Elektronski zbornik radova 57 konferencije ETRAN 2013 na CD-u, Zlatibor, Srbija, 3-6. Jun, Društvo za ETRAN, MT3.1, 2013, ISBN: 978-86-80509-68-6.

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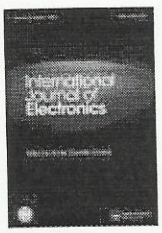

Original Articles

Linearization of Asymmetrical Doherty Amplifier by the Even-Order Nonlinear Signals

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Nataša Maleš-Ilić[a*], Aleksandar Atanasković[a], Kurt Blau[a] & Matthias Hein[a]

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Abstract

This paper considers the linearization of an asymmetrical two-way Doherty amplifier by the method that uses the second harmonics and fourth-order nonlinear signals for linearization. These even-order signals for linearization are extracted at the output of the peaking amplifier, adjusted in amplitude and phase and injected at the input and output of the carrier amplifier transistor in the Doherty configuration. The effect of linearization has been experimentally confirmed on a fabricated asymmetrical Doherty amplifier with the additional circuit for linearization. The suppression of the third-order intermodulation products has been carried out for two-tone test, 64QAM and WCDMA digitally modulated signals in a range of signal power.

Keywords

- Doherty amplifier,
- linearization,
- second harmonics,
- fourth-order nonlinear signals,
- intermodulation products

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October 08, 2015

Dear Dr. Maleš,

I am pleased to inform you that, after completing the review procedure for your paper entitled " LINEARIZATION OF BROADBAND TWO-WAY MICROSTRIP DOHERTY AMPLIFIER ", it has been accepted for publication in Facta Universitatis: Series Electronics and Energetics, and will appear in one of forthcoming journal's issues.

Best regards,

Prof. Ninoslav Stojadinović
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