

ИЗБОРНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Предмет: Извештај Комисије за избор у звање гостујућег професора за ужу научну област Телекомуникације.

На основу одлуке Наставно-научног већа Електротехничког факултета Универзитета у Београду број 89/2 од 01. марта 2016. године именовани смо за чланове Комисије за подношење извештаја за избор др Ђурађ Будимира, *Reader* (звање које је по рангу између ванредног и редовног професора Универзитета у Београду) of *Wireless Communications Research Group, Faculty of Science and Technology, University of Westminster, UK*, у звање гостујућег професора за ужу научну област Телекомуникације.

Након увида у достављену документацију подносимо следећи

ИЗВЕШТАЈ

А. БИОГРАФСКИ И АКАДЕМСКИ ПОДАЦИ О КАНДИДАТУ

Ђурађ Будимир је рођен 10.10.1957. године у Грачацу, Лика, Бивша Југославија. Јуна 1981. године успешно завршава основне студије на Електротехничком факултету Универзитета у Београду, на профилу Електроника и телекомуникације. Војни рок одслужио је у периоду 1983-1984. Последипломске студије на Електротехничком факултету у Београду, смер Телекомуникације, завршио је у мају 1985. године. Од завршетка основних студија до 1989. ради у неколико српских компанија: Електронска Индустрија (ЕИ), Војно Технички Институт (ВТИ) и Институт за Микроталасну Технику и Електронику (ИМТЕЛ). У септембру 1989. године одлази у Уједињено Краљевство на Електротехнички факултет, Универзитета у *Leeds*-у где ради као гостујући истраживач на развоју микроталасних филтара за примене у микроталасном радију под менторством проф. *John David Rhodes*-а. На истом факултету наставља да ради и докторат који успешно завршава 1995. Од Марта 1994. године запослен је у својству *post-doc* истраживача у центру за телекомуникације, Електротехничког факултета, *King's College London, University of London*, где ради на два EPSRC истраживачка пројекта. Од јануара 1997. запослен је на Електротехничком факултету, *Westminster* Универзитета у Лондону као доцент (*lecturer*). У фебруару 2000. године унапређен је у звање ванредног професора (*senior lecturer*), а у јулу 2006. године у звање *Reader* (звање које је по рангу између ванредног и редовног професора Универзитета у Београду; ово звање је у Америци и Канади у рангу редовног професора) у коме се и сада налази. Године 1998. оснива и руководи са истраживачком групом под називом *Wireless Communications Research Group (WCRG)* која има 5 стално запослених чланова (3 *Reader*-а, једног ванредног професора и једног доцента). Ђурађ Будимир је, самостално, значајно допринео осавремењивању Лабораторије за бежичне комуникације на Универзитету *Westminster* у Лондону, тако да она данас представља једну од боље опремљених универзитетских лабораторија из ове области. У протеклих 18 година у лабораторијску опрему је уложено преко £500.000. Ђурађ Будимир је радио и ради на развоју и реализацији треће, четврте и пете генерације мобилних радио система, уређаја за бежичне мреже (WLAN, WPAN, UWB), бежичних сензорских мрежа, IoT и M2M. Према својим досадашњим резултатима спада у високо рангиране светске научнике из области развоја уређаја, подсистема и система за бежичне мреже. Ђ. Будимир има интензивну националну и интернационалну сарадњу, а посебно са следећим универзитетима: *University of Manchester, University of Loughborough, University of Essex, University College London, Imperial College London, University of Surrey, University of Sydney, University of Colorado at Boulder, The Georgia Institute of Technology, The University of Pavia*, Техничким факултетом у Новом Саду, Електронским Факултетом у Нишу и Електротехничким факултетом у Београду. EPSRC, EU, *The Royal Society, The Royal Academy of Engineering* и *The Nuffield Foundation* углавном финансијски подржавају/спонзоришу истраживачке активности WCRG групе.

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Web2: <http://www2.wmin.ac.uk/~budimid>
You Tube: <http://www.youtube.com/watch?v=gTCSPTuO1Go>

Професионална каријера:

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

Б. ОБРАЗОВАЊЕ

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

В. НАСТАВНА АКТИВНОСТ

В.1. Учешће у настави

Електротехнички факултет, Универзитета у Leeds-у, UK

Окт. 1989 - Феб. 1994:

Основне студије (MEng/BEng):

Year 1: Electromagnetism laboratory (teaching assistant)

Year 2: Communications (teaching assistant)

Year 2: Analog Electronics (teaching assistant)

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

Март 1994 - Мај 1996:

Основне студије (MEng/BEng):

Year 2: RF Circuit Design (Team member)

Year 3: High Frequency and Microwaves (Team member)

Последипломске студије (MSc):

RF and Microwave Engineering (Team member)

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

Основне студије:

1997- 2010

3ECE522: *Year2: Communications and Circuits (Module leader)*

3TSE612: *Year3: RF and Microwave Systems (Module leader)*

2010 - до данас

EEEL510: *Year2: Digital Communications (Module leader)*

EEEL610: *Year3: Wireless RF and Microwave Systems (Module leader)*

Последипломске студије (MSc):

1997 – 2010

MSc: *Mobile, Personal & Satellite Communications*

3MPC3A2 *Module: Terrestrial and Satellite Communication Systems (Team member)*

3MPC7A3 *Module: RF&Microwave Circuits and Sub-Systems (Module leader)*

3MPC7A6 *Module: Advanced CAD of RF, microwave & mm-wave circuits for Modern Digital Communication Systems (Module leader)*

MSc: *Broadband and High-Speed Data Communication Networks*

MBIC2 *Module: Wireless Communication Networks (Module leader)*

Окт. 2010 - до данас:

MSc: *Mobile, Wireless and Broadband Communications and MSc of Research in Electronics*

EEMB705: *Broadband Wireless Networks (Module leader)*

EEMB750: *Wireless System Design (Module leader)*

B.2. Студентске анкете

Од стране студената увек је добијао високе оцене.

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

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

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

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

PhD Менторство

Др Ђурађ Будимир је био ментор за 18 успешно одбрањених докторских дисертација на Електротехничком факултету Универзитета *Westminster* у Лондону.

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

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

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

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

Комисије за оцену и одбрану радова

Др Ђурађ Будимир је 24 пута био члан комисија за одбрану докторских дисертација на националним (УК) и интернационалним универзитетима.

Г. БИБЛИОГРАФИЈА НАУЧНИХ И СТРУЧНИХ РАДОВА

Проф. др Ђурађ Будимир је аутор преко 325 научних радова из области радио комуникационих система и подсистема објављених у:

- еминентним међународним часописима са "impact factorom"-ом (укупно 82),
- зборницима радова са конференција (укупно 230),
- објављених радова на конференцијама по позиву и предавања по позиву (укупно 16).

Поред тога, проф. Ђ. Будимир има објављене две књиге и развијена два комерцијална софтвера са пратећом документацијом. Цитираност радова Ђурађ Будимира без аутоцитата свих коаутора обухвата 1344 цитата (извор: *Google Scholar*, Mart 2016. године.) Vrednost njegovog 'H' indeksa је 17 (*Google scholar*) (i10-index: 38).

Г.1. Библиографија научних и стручних радова

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

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

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

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W. Ahmad and D. Budimir, "Compact MIMO Antennas with High Isolation and Diversity for UWB Applications, *IEEE Antenna and Wireless Propagation Letters*, (submitted)

W. Ahmad and D. Budimir, Reconfigurable High-Linearity UWB Filters with Independently Controlled Dual Bandnotch, *IET Electronics Letters* (submitted)

N. Mohottige, O. Glubokov, U. Jankovic and D. Budimir, "Ultra Compact Inline E-plane Waveguide Bandpass Filters Using Cross Coupling", *IEEE Transaction on Microwave Theory and Techniques*, (resubmitted).

M. Bozic, M. Cabarkapa and D. Budimir, Combined Baseband Injection - Real Volterra Digital Predistortion for 4G Wireless Transmitters" *IEEE Microwave and Wireless Components Letter* (resubmitted).

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- [60] O. Glubokov, and D. Budimir, "Extraction of Generalized Coupling Coefficients for Inline Extracted Pole Filters with Nonresonating Nodes", *IEEE Transaction on Microwave Theory and Techniques*, Vol 59, No. 12, pp. 3023-3029, December 2011.
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- L. Athukorala, D. Budimir, and M. M. Potrebic, "Design of Open-Loop Dual-Mode Microstrip Filters", *Progress in Electromagnetics Research Letters*, Volume 19, page 179-185, 2010.
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- L. Athukorala, and D. Budimir, "Miniaturized Bandpass Filters using Closed-loop Microstrip Ring Resonator with Parallel-Coupled Feed for Wireless Communications", *Microwave and Optical Technology Letters*, Volume 52, Issue 6, pages 1277–1280, June 2010.

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

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

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

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

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

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Г.1.4 Радови и предавања по позиву [16]:

[1] D. Budimir, "CAD of General Filters for Modern Communication Systems", IEEE Invited Lecture, IEEE MTT/AP/ED Finland Chapter, Helsinki University, Finland, 29 May 1998.

[2] D. Budimir, "Design of Microwave and Millimetre-wave Filters by DBFILTER code for Terrestrial and Satellite Communication Systems", Invited Presentation to Brunel University of West London, Uxbridge, UK, 29 January 1998.

[3] D. Budimir, "Design of Microwave Filters for Modern Communication Systems", IEEE Invited Lecture, IEEE MTT Yugoslav Chapter, Institute of Microwave Techniques and Electronics, Belgrade, Yugoslavia, 17 June 1998.

[4] Budimir, D., "RF and Microwave Filters for Communication Systems", Invited Presentation to National Technical University of Athens, Athens, Greece, 26 June 1998.

[5] Budimir, D., "Microwave Filter Design", Invited Presentation to University of London, King's College, London, 31 June 1998.

[6] D. Budimir, "Advanced Design of Microwave Circuits", IEEE Invited Lecture, IEEE MTT Beijing Section and IEE Beijing Centre, Tsinghua University (Beijing), China, 5 December 1998.

- [7] D. Budimir, "CAD of RF, Microwave and Millimetre-wave Circuits for Modern Digital Communication Systems", Invited paper, The 3rd RIEC International Symposium on Novel Techniques and Applications of Millimetre-Waves, Sendai International Centre, Sendai, Japan, December 14-15, 1998.
- [8] D. Budimir, "Advanced Design of Passive Components for Microwave Systems and Applications", Invited Lecture IEEE MTT/AP/EC Xian China Chapter, 4th Research Institute of Ministry of Posts and Telecommunications, Xian, China, 18 December 1998.
- [9] D. Budimir, "Wireless Broadband Systems and Technologies", 23 March 2007, University of Westminster, London, UK.
- [10] D. Budimir, "Microstrip Patch Antennas for RF Front-End of Wireless Communication", University of Belgrade, Belgrade, Serbia, Friday 20th April 2007.
- [11] D. Budimir, "Wireless Communication Systems and Technologies", 7th May 2007, University of Nis, Nis, Serbia.
- [12] D. Budimir, "WiMAX Wireless Broadband Access Systems", 10th May 2007, University of Belgrade, Belgrade, Serbia.
- [13] D. Budimir, "Mobile Radio Systems", University of Nis, Nis, Serbia, The Brain Gain Program (BGP), World University Service Austria, December 2008
- [14] D. Budimir, "Mobile and Wireless Communication Systems", University of Belgrade, Belgrade, Serbia, The Brain Gain Program (BGP), World University Service Austria, December 2009
- [15] D. Budimir, "Wireless System Design", University of Belgrade, Belgrade, Serbia, The Brain Gain Program (BGP), World University Service Austria, December 2010
- [16] D. Budimir and D. Bondar, Compensation of Nonlinear Distortion in RF Power Amplifiers for Wireless Communications, IEEE 19th Telecommunications Forum TELFOR 2011, 22-24 November 2011, Belgrade, Serbia.

Г.2. Цитираност радова

Цитираност радова Ђурађ Будимира без аутоцитата свих коаутора обухвата 1344 цитата (извор: *Google Scholar*, Mart 2016. године.)

Д. ПРОЈЕКТИ И СТУДИЈЕ

Д.1. Пројекти и студије у последњих пет година

Д.1.1. Пројекти Министарства просвете, науке и технолошког развоја републике Србије

Др Ђурађ Будимир је учествовао, односно још увек учествује, у једном пројекту технолошког развоја Министарства просвете, науке и технолошког развоја у периоду 2011-2016:

„Алгоритми и софтвер за симулације у фреквенцијском и временском домену RF подсистема и електромагнетских сензора у ICT”, број пројекта: TP32005.

Д.1.2. Међународни пројекти

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

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

Б. ОСТАЛИ РЕЗУЛТАТИ, СТРУЧНЕ И ДРУШТВЕНЕ АКТИВНОСТИ

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

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

- 1998- до данас: Шеф/руководилац WCRG групе,
- 2006 - 31. јула 2015: ЕСЕ Кластер координатор за истраживање.

Б.2. Активности у професионални удружењима

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

Conferences Activities:

Local arrangements co-chair

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

Professional Society Memberships

2002- *Senior Member of IEEE*

2002 - *Full Member of the IET*

Professional Society Activities

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

European Union Network Activities

2011-2015 *EuroWeb*

Б.3. Струковне активности

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

Examiner/evaluator for inter/national research funding agencies,

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

Engineering and Physical Sciences Research Council (EPSRC),

Royal Academy of Engineering,

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

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

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

EU Horizon 2020 Contributor

University External Examiner/Reviewer

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

International conference technical programme committee member: 35+

Journal editor: 2

Editorial Board Member:

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

Associate Editor, IET Electronics Letters.

Reviewer for book proposals: 2

John Wiley and Cambridge University Press.

Reviewer for international journals: 10

International conference session chairman: 22

Б.4. Награде и признања

2012 Telenor Foundation “Ilija Stojanovic” Award

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

Е. Приказ и оцена научног рада

Кандидат, др Ђурађ Будимир, је публикувао преко 325 радова из области радио технологија и бежичних подсистема и система. Са укупном цитираношћу **1344** (извор: *Google scholar*, март 2016.) од чега преко 80 у радовима са импакт фактором од којих је велики број у врхунским међународним часописима. Такође, презентовао је преко 16 радова по позиву на еминентним светским конференцијама из области радио технологија и бежичних подсистема и система. Према својим досадашњим резултатима спада у високо рангиране светске научнике који су свој допринос дали развоју и реализацији треће, четврте и пете генерације мобилних радио система и уређаја за бежичне мреже. Због врло високе оцене његовог досадашњег научног и наставног рада, Катедра за Телекомуникације је предложила кандидата за гостујућег професора како би пренео своје знање и стечено искуство из области радио технологија и бежичних подсистема и система нашим колегама и студентима.

Ж. Оцена испуњености услова

Кандидат, др Ђурађ Будимир, испуњава све услове из Закона о високом образовању (члан 66), Статута Универзитета у Београду (члан 134), Статута Електротехничког факултета Универзитета у Београду (чланови 17 и 102), као и Правилника о условима и начину ангажовања гостујућег професора на Универзитету у Београду (члан 3) за избор у звање гостујућег професора.

3. Закључак и предлог

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

Др Ђурађ Будимир има докторат из области радио-фреквенцијских филатара за радио-комуникационе линкове, публикувао је више од 300 радова из области радио технологија и бежичних подсистема и система, има 1344 цитата, показао је завидне резултате у настави на матичном факултету, као и научну препознатљивост из области радио технологија и бежичних подсистема и система на светском нивоу. Ови резултати су и условили да Катедра за Телекомуникације Електротехничког факултета Универзитета у Београду предложи кандидата др Ђурађ Будимира за гостујућег професора за област Телекомуникација (ужа област: радио технологије, бежични системи и мреже).

Кандидат, др Ђурађ Будимир, бивши је студент Електротехничког факултета и од дана дипломирања стално сарађује са колегама са Електротехничког факултета Универзитета у Београду.

Полазећи од свеобухватне анализе научне, наставне и стручне активности др Ђурађа Будимира, квалитета његовог научног рада, препознатљивости из области радио технологија и бежичних подсистема и система на светском нивоу и жеље за ангажовањем и несебичним

преношењем својих знања колегама и студентима у Србији, Комисија предлаже Наставно-научном већу Електротехничког факултета Универзитета у Београду да др Ђурађ Будимира изабере у звање гостујући професор.

Београд, 09.03.2016. године

ЧЛАНОВИ КОМИСИЈЕ

.....
Проф. др Александар Нешковић, редовни професор
Универзитет у Београду - Електротехнички факултет

.....
Проф. др Ирини Рељин, редовни професор
Универзитет у Београду - Електротехнички факултет

.....
Проф. др Ђорђе Пауновић, ред. професор у пензији
Универзитет у Београду - Електротехнички факултет