

## НАСТАВНО-НАУЧНОМ ВЕЋУ ЕЛЕКТРОТЕХНИЧКОГ ФАКУЛТЕТА УНИВЕРЗИТЕТА У БЕОГРАДУ

Наставно-научно веће Електротехничког факултета Универзитета у Београду на својој 772. седници одржаној 25.3.2014. године, именовало нас је за чланове Комисије за избор др Александра Станковића у звање гостујућег професора. Након прегледа поднесеног материјала имамо част да Наставно-научном већу поднесемо следећи

### ИЗВЕШТАЈ

#### Биографски подаци

Др Александар Станковић је дипломирао на Електротехничком факултету Универзитета у Београду 1982. године, као студент генерације. Магистарске студије из електротехнике завршио је 1986. године, на Енергетском одсеку Електротехничког факултета Универзитета у Београду, под руководством проф. Милана Ђаловића, након чега је уписао докторске студије на University of Illinois at Urbana-Champaign, где полаже испите првог семестра докторских студија. Докторске студије наставља и завршава на Massachusetts Institute of Technology у Бостону и стиче назив доктора електротехничких и рачунарских наука. Докторску тезу под називом „Случајна импулсна модулација са применама у управљању конверторима базираним на енергетској електроници“ урадио је под руководством професора Џорџа Вергезеа, у оквиру које је извршено истраживање утицаја прекидачке стратегије са стохастичким компонентама на спектар сигнала и на смањење захтева при филтрирању сигнала.

Своје радно искуство др Станковић почиње да стиче одмах након стицања звања дипломираног инжењера електротехнике на Електротехничком факултету у Београду, запошљавањем у Институту „Михаило Пупин“, где ради на пословима истраживача на пројектима. Од јануара 1987. запослен је на Електротехничком факултету, као асистент на предметима области теорије електричних кола, да би у јуну исте године постао асистент истраживач на Универзитету у Илиноису. Од јануара 1988. ангажован је на истраживањима и у настави на Massachusetts Institute of Technology, Бостон. Од јануара 1993. године запослен је на Northeastern University, Electrical and Computer Engr. Dept., у Бостону, где 1998. године постаје ванредни професор, 2002. године редовни професор, а 2006. године професор са одликама (Distinguished Professor). Од јуна 2010. године прелази на Electrical and Computer Engr. Dept., Tufts University, Boston, као A.H. Howell Endowed Professor, где је и сада.

Области стручног интересовања и рада др Станковића су сви аспекти аналитичког експерименталног рада који укључује моделовање, регулацију и естимацију у области електроенергетских система, енергетске електронике и електромоторних погона. До сада је одржао велики број семинара и предавања по позиву на међународним конференцијама и има више од 200 објављених радова. Др Станковић је fellow of IEEE, где је тренутно едитор сарадник IEEE Transactions on Smart Grid, док је у претходном периоду исту функцију имао и у Transactions on Power Systems и Transactions on Control System Technology (1996-2010). У звању гостујућег професора био је на United Technologies Research Center (2000 и 2007) и at L'Universite de Paris-Sud and Supélec (2004). Коедитор је серије Power Electronics and Power Systems за Springer. Добитник је више награда за досадашњи стручни и научни рад.

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#### Радови у зборницима радова међународних конференција

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150. B. Yan, H. Lev-Ari, and A.M. Stanković, "Multi-Sensor Networked Estimation with Delayed and Irregularly-Spaced Observations", IEEE Statistical Signal Processing Workshop, Ann Arbor, MI, Aug 2012.
151. P. Argyropoulos, H. Lev-Ari, and A.M. Stanković, "Customizable Frequency-Selective Filter Banks for Robust Dynamic Frequency Analysis", 44th North American Power Symposium, Urbana, IL, Sept. 2012.

## Одзив на радове

Према непотпуној евиденцији, радови др Александра Станковића су цитирани око 3000 пута, не бројећи аутоцитате.

## Патенти

1. Patent awarded on April 23, 1996, (U.S. Pat. Number 5,510,698): “Markov Chain Controlled Random Modulation of Switching Signals in Power Converters”, (with G.C. Verghese and D.J. Perreault), sponsored by MIT (for the PhD work).
2. Patent awarded on December 7, 1999, (U.S. Pat. Number 5,998,957): “Dissipativity Based Controller for Synchronous Electric Drives and Associated Methods” (with G. Tadmor), sponsored by SatCon Corp.
3. Patent awarded on December 10, 2002, (U.S. Pat. Number 6,492,788): “Method and Apparatus for Encoderless Operation of a Permanent Magnet Synchronous Motor in an Elevator” (with I. Agirman, C. Czerwinski and E. Piedra), sponsored by Otis Elevator Co. (work performed during the sabbatical leave).
4. Patent awarded on March 1, 2005, (U.S. Pat. Number 6,862,199): “Adaptive Controller for D-Statcom in the Stationary Reference Frame to Compensate for Reactive and Harmonic Distortion Under Unbalanced Conditions”, (with G. Escobar and P. Mattavelli), sponsored by Northeastern University.
5. Patent awarded on March 22, 2005, (U.S. Pat. Number 6,870,348): “Rotor Resistance Adaptation for Indirect Field Oriented Control of Induction Machine” (with M.S. Mijalkovic, S. Hiti, and J. Nagashima), sponsored by General Motors Co.
6. Patent awarded on April 26, 2005, (U.S. Pat. Number 6,885,970): “Saliency-Based Position Estimation in Permanent Magnet Synchronous Motors”, (with V. Petrovic), sponsored by Northeastern University.
7. Patent awarded on September 6, 2005, (U.S. Pat. Number 6,940,187): “Robust Controller for Controlling a UPS in Unbalanced Operation”, (with G. Escobar and P. Mattavelli), sponsored by Northeastern University.

## Професионалне активности

- Предавања по позиву: Boston University (2011), Stanford University (2009), Worcester Polytechnic Institute (2009), North Carolina State University (2009), Swiss Federal Institute of Technology, Zurich (2008 and 2000), University of Michigan (2008), Arizona State University (2007), Supélec, France (2004), Ecole des Mines, France (2004), Technical University of Delft, The Netherlands (2004), University of Lund, Sweden (2003), University of Sevilla, Spain (2002), Iowa State University (2002), Simon Fraser University (2001), Texas A&M University (1999), University of Illinois at Urbana-Champaign (1999); Drexel University (1998); University of Minnesota (1998); University of Washington (1998); Georgia Institute of Technology (1998); University of Belgrade (1997, 2001, 2013); University of Missouri - Rolla (1997); University of Wisconsin - Madison (1997); University of California-Berkeley (1996); Tufts University (1996 and 2009).
- Proposal reviewer for the National Science Foundation (1994 →); National Science Foundations (or equivalents) of Italy, Canada, Singapore, Denmark, Hong Kong and South Africa; National Research Council (1998); U.S. Civilian Research and Development Foundation (2000), University of California Energy Institute (1996)
- Graduate Thesis Committee Member at Tufts University (1996); MIT (1998, 2003, 2012); Teknikon, Pretoria, South Africa (2001); Nanyang Technological University, Singapore (2001), University of Sevilla, Spain (2001), ETH Zurich (2007).
- Adjunct Professor at Worcester Polytechnic Institute (WPI, 2001 →).
- Research Affiliate at MIT
- Laboratory for Electromagnetic and Electronic Systems (1996 →).
- Past chairman, IEEE Control Systems Society Committee on Control Electronics (2001).
- Past chairman, Technical Committee on Power Electronics and Power Systems of the IEEE Circuits and Systems Society (2000-01).
- AdCom member, IEEE Power Electronics Society, and Chair, Standing committee for Publications (2003-2005).
- Associate Editor for the Special Issue on Computers in Power Electronics, IEEE Transactions on Power Electronics (2001).
- Past Associate Editor, IEEE Transactions on Control System Technology (1997-2001).
- Past Chairman, IEEE Power Engineering Society Subcommittee on Power System Stability (2001-2006).

- Past Associate Editor, IEEE Circuits and Systems Magazine (2003-2008).
- Associate Editor, IEEE Power Engineering Society Letters (2004-2010).
- Past Associate Editor, IEEE Transactions on Power Systems (2001- 2010).
- Associate Editor, IEEE Transactions on Smart Grid (2011- →).
- Co-editor of book series on Power Systems and Power Electronics for Springer (2003-→).

## Руководство научним и развојним пројектима

1. National Science Foundation, Research Initiation Award PI  
June 1994 – June 1997, “Markov Chain Control of Randomized Switching in Power Converters”
2. C.S. Draper Laboratory, University IR&D Grant Co-PI (with G. Tadmor)  
June 1996 – June 1997, “Coordinated Controllers for Quiet Variable Speed Motors”
3. Office of Naval Research, Research Grant PI  
June 1995 – June 1998, “Control of Naval Electrical Drives”
4. National Science Foundation, Faculty Early Career Development (CAREER) Award PI  
June 1995 – June 1999, “Suppression of Low-Frequency Oscillations in Power Systems and Electric Drives – a Dissipativity Approach”
5. Electric Power Research Institute (EPRI), Research Contract PI  
June 1996 – Dec. 1998, “Methods for Computer Aided Control Synthesis in Power Systems”
6. Office of Naval Research, Young Investigator Award PI  
July 1997 – June 2001 “A Frequency-Selective Approach to Modeling and Control in Switched Power Processing”
7. Army Research Office, Research Grant Co-PI (with G. Tadmor)  
May 1999 – Apr. 2002 “Nonlinear Adaptive Control of AC Electric Drives”
8. General Motors Corp. Research Contract and Gift PI  
Jan. 2001 – July 2002, “Robust and Adaptive Control of Induction Machines in Automotive Applications”
9. National Science Foundation, Standard Grant PI  
June 1999 – June 2003, “Artificial Neural Networks for Identification and Analysis of Continuous-Time Dynamical Models in Energy Processing Systems”
10. ONR Virtual Test Bed Project, Research Grant PI  
July 2001 – June 2003, “Nonlinear Control of Electromechanical Systems”
11. National Science Foundation, Standard Grant Co-PI (with H. Lev-Ari)  
Aug. 2001 – June 2005, “Hilbert Space Tools for Modeling and Compensation of Reactive Power in Energy Processing Systems”
12. Office of Naval Research, Standard Grant PI  
Jan. 2003 – Dec. 2004, “Advanced Dynamical Models in Fault-Tolerant Operation and Control of Energy Processing Systems”
13. National Science Foundation, Standard Grant EPNES-1 PI  
Sep. 2002 – Aug. 2005, “Dynamical Models in Fault-Tolerant Operation and Control of Energy Processing Systems”
14. National Science Foundation, Standard Grant EPNES-2 PI  
Aug. 2003 – Aug. 2007, “Power System Security Enhancement via Equilibrium Modeling and Environmental Assessment”
15. US Civilian Research and Development Foundation, with Moldovan Academy of Sciences PI  
Nov. 2004 – Nov. 2006, “Novel Methods for Synchronized Pulse Width Modulation for Control of Large Converters”
16. Office of Naval Research, MURI Grant PI  
May 2004 – Apr. 2010, “Device Development for Remote Non-destructive Testing and Measurement of Power Systems”
17. Italian Ministry of Higher Education, International Collaboration Grant PI  
May 2005 – May 2010, “Application of Statistical Characterizations to Nonlinear Dynamics of Information Technologies”
18. National Science Foundation, Standard Grant Co-PI (with H. Lev-Ari)  
July 2006 – June 2009, “Adaptive Techniques for Optimizing Power Flows in Uncertain Energy Processing Systems”
19. National Science Foundation, Standard Grant PI
20. July 2008 – June 2012, “Equation-Free Approach to System-Level Dynamic Modeling in Electric Energy Processing”

21. Global Climate and Energy Program, Stanford University, Research Grant Co-PI  
July 2010 – June 2014, “Scalable and Flat Controls for Reliable Power Grid Operation with High Renewable Penetration”
22. Office of Naval Research, Standard Grant PI  
Mar. 2010 – Feb. 2015, “Cyber-Physical Models in Naval Energy Systems”
23. National Science Foundation, ERC Award - Univ. of Tennessee Co-PI  
Oct. 2011 - July 2016, “Center for Ultra-wide-area Resilient Electric Energy Transmission Networks”
24. ARPA-E, Grant PI  
Mar. 2012 – Mar. 2014, “Transmission Topology Control for Infrastructure Resilience to the Integration of Re-newable Generation”
25. Department of Energy Fraunhofer USA Consortium Co-PI  
Mar. 2013 - Feb. 2018, “Plug and Play Photovoltaics”

#### Награде

- National Science Foundation Research Initiation Award, 1994
- National Science Foundation CAREER Award, 1995
- Office of Naval Research Young Investigator Award, 1997
- Northeastern University College of Engineering Research Award, 2001
- Distinguished Lecturer of the IEEE Circuits and Systems Society, 2003
- Plenary Speaker, Brazilian Congress on Automatic Control, 2004
- Distinguished Research Fellow of the Northeastern University, 2004
- Fellow of the IEEE, 2005
- Distinguished Professor of Engineering, Northeastern University, 2006
- Plenary Speaker, 5th IEEE International Conference on Electrical Engineering, Computing Science and Automatic Control, Mexico, 2008
- Inaugural Alvin H. Howell Endowed Professor in Electrical Engineering, Tufts University, 2010

#### Закључак и предлог

Из изложеног се види да кандидат, др Александар Станковић, професор на Тафтс Универзитету у Бостону, Масачусетс, Сједињене Америчке Државе, испуњава све услове Закона о високом образовању (члан 66) и Статута Електротехничког факултета, Универзитета у Београду, (чланови 17 и 102), за избор у звање гостујући професор.

Др Александар Станковић има докторат наука, коаутор је 3 објављене књиге, 61 рада објављена у међународним часописима, 151 излагање на међународним научним скуповима објављено у целости и више од 30 предавања по позиву. У последњих неколико година, др Александар Станковић има значајну сарадњу са Катедром за електроенергетске системе Електротехничког факултета.

Полазећи од анализе целокупне наставне и научноистраживачке активности др Александра Станковића, обима и квалитета његовог рада, а посебно стручног рада из области електроенергетских система, те његовог ангажовања и жеље да их пренесе студентима и колегама у Србији, предлажемо Наставно-научном већу Електротехничког факултета, Универзитета у Београду, да га изабере у звање гостујући професор.

У Београду, 10.04.2014.

Чланови комисије:

др Никола Рајаковић, ред. проф.

др Иван Шкокљев, ред. проф.

др Драган Тасић, ред. проф.