

Curriculum Vitae

Personal Information

Surname(s) / First name(s): **Stevanović (Nikolić) Marija**

Telephone: +381 63 8898 241

E-mail: mnikolic@etf.rs

Nationality: Serbian

Education

Dates: Jan 2005 – Nov 2011

Degree awarded: PhD in Electrical and Computer Engineering

Name of awarding institution: Washington University in St. Louis

Dates: Oct 2003 – Sep 2007

Degree awarded: PhD in Electrical and Computer Engineering

Name of awarding institution: University of Belgrade, Serbia

Dates: Oct 2000 – Oct 2003

Degree awarded: MSECE Masters in Electrical and Computer Engineering

Name of awarding institution: University of Belgrade, Serbia

Dates: Oct 1995 – Oct 2000

Degree awarded: BSECE Diploma in Electrical and Computer Engineering

Name of awarding institution: University of Belgrade, Serbia

Work Experience

Dates: Jan 2001 – Mar 2008

Employer Name: University of Belgrade, Serbia

Occupation or position(s) held: Teaching assistant at Electrical Engineering Dept.

Dates: Mar 2008 – January 2017

Employer Name: University of Belgrade, Serbia

Occupation or position(s) held: Assistant professor at Electrical Engineering Dept.

Dates: February 2017 – Present

Employer Name: University of Belgrade, Serbia

Occupation or position(s) held: Associate professor at Electrical Engineering Dept.

Dates: Jan 2005 – Dec 2005

Employer Name: University of Illinois at Chicago, USA

Occupation or position(s) held: Research Assistant, ECE Dept.

Professional Organizations

MC Member - COST MiMED (TD 1301)

MS Substitute COST VISTA (IC1102)

Member – IEEE

Selected Publications

Journals

- 1.1 Djordjević, A. R., Zajić, A. G., Steković, A. S., **Nikolić, M. M.**, Marićević, Z. A., Schemmann, M. F. C. "On a class of low-reflection transmission-line quasi-Gaussian low-pass filters and their lumped-element approximations", *IEEE Transactions on Microwave Theory and Techniques*, vol. MTT-51, no. 8, July 2003, pp. 1871-1877.
- 1.2 **Nikolić, M. M.**, Djordjević, A. R., Stefanović, I., Vrhovac, S., Petrović, Z. Lj, "Semi-analytical models of volt-ampere characteristics of diffuse low-current low-pressure discharge", *IEEE Transactions on Plasma Science*, Special Issue on the Modeling of Collisional or Near-Collisionless Low Temperature Plasmas, vol. 31, no. 4, August 2003, pp. 717-723.
- 1.3 **Nikolić, M. M.**, Djordjević, A. R., Nehorai, A., "Microstrip antennas with suppressed radiation in horizontal directions and reduced coupling", *IEEE Transactions on Antennas and Propagation*, vol. AP-53, no. 11, November 2005, pp. 3469-3476.
- 1.4 **Nikolić, M. M.**, Ortner, M., Nehorai, A., Djordjevic, A. R., "An approach to estimating building layouts using radar and jump-diffusion algorithm," *IEEE Transactions on Antennas and Propagation*, Vol. 57, No. 3, March 2009, pp. 768-776.
- 1.5 **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Estimating moving targets behind reinforced walls using radar," *IEEE Transactions on Antennas and Propagation*, Vol. 57, No. 11, Nov 2009, pp. 3530-3538.
- 1.6 **Nikolić, M. M.**, Nehorai, A., Djordjevic, A. R., "Estimation of direction of arrival using arrays on platforms," *IEEE Trans. Antennas Propagat.*, Vol. 60, No. 7, July 2012, pp. 3530-3538.
- 1.7 Djordjević, A. R., Tošić D. V, Zajić A. G., **Nikolić M. M.**, Olćan D. I, and Jovanović, I. D, "Temporal leakage in analysis of electromagnetic systems", *IEEE Antennas and Propagation Magazine*, Vol. 54, No. 6, December 2012, pp. 92-101.
- 1.8 **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Electromagnetic imaging of hidden 2D PEC targets using sparse signal modeling," *IEEE Transactions on Geoscience and Remote Sensing*, Volume: 51, Issue: 5, Part: 1, May 2013, pp. 2707-2721.
- 1.9 Savić S., Krmeta A., **Stevanović M.**, Olćan D., Tasić M., Ilić M., Tošić D., Kolundžija B., and Djordjević A., "Analytic solutions of electromagnetic fields in inhomogeneous

media," *International Journal of Electrical Engineering Education*, vol. 52, pp. 131-141, April 2015.

- 1.10. **Stevanovic Nikolic M.**, L. Crocco., Djordjević, A. R., and Nehorai, "Higher-order sparse microwave imaging of PEC scatterers," *IEEE Trans. Antennas Propag.*, Vol. 64, pp. 988-997, Mar. 2016.
- 1.11. N. Munic, **Stevanovic Nikolic M.**, A. Djordjevic, and A. Kovacevic, "Evaluation of radiating-source parameters by measurements in Faraday cages and sparse processing", *Measurement*, Vol. 104, pp. 105–116, July 2017.

Software

- 2.1 **Nikolić M. M.**, Djordjević, A.R., Nikolić M. M. , *ES3D: Electrostatic Field Solver for Multilayer Circuits*, Artech House, Boston, 2007.

Conferences

- 3.1. **Nikolić, M. M.**, Djordjević, A. R., "Coupling among collocated loops," *Proc. of EuCAP*, ESA SP-626, Nice, November 2006.
- 3.2. **Nikolić, M. M.**, Djordjević, A. R., "Improving radiation pattern of microstrip antennas," *Proc. of EuCAP*, ESA SP-626, Nice, November 2006.
- 3.3. **Nikolić, M. M.**, Nehorai, A., and Djordjević, A. R., "Estimating distributed objects inside buildings by moving sensors," *Proc. of ACES 2007*, March 2007., Verona, Italy, pp. 409-414.
- 3.5. **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Radar estimation of building layout using jump-diffusion," *Proc. 2nd IEEE Int. Workshop on Computational Advances in Multi-Sensor Adaptive Processing*, St. Thomas, U.S. Virgin Islands, Dec. 2007.
- 3.6. **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Exploiting multipath from airborne platform for direction of arrival estimation," *Proc. of EuCAP*, pp. 3131-3135, Berlin, Germany, 23-27 March 2009.
- 3.7. **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Sparse electromagnetic imaging," *Proc. of EuCAP*, April 11-15, Rome, Italy, 2011.
- 3.8. **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Electromagnetic imaging of hidden 2D PEC targets using sparse signal modeling," *Proc. of USNC/URSI*, Spokane, WA, July 3-8, 2011.
- 3.9. **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Biologically inspired sensing on UAV platform," *Proc. of USNC/URSI*, Spokane, WA, July 3-8, 2011.
- 3.10 **Nikolić, M. M.**, Nehorai, A., Djordjević, A. R., "Sparse through-the-wall imaging," *4th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)*, pp. 77-80, 13-16 December 2011, San Juan, Puerto Rico.
- 3.11 **Nikolić, M. M.**, Djordjević, A. R., Nehorai, A., "Experimental verification of 2D sparse electromagnetic imaging," *Proceedings of the 6th European Conference on Antennas and Propagation (EUCAP)*, March 2012, Prague.
- 3.12 **Nikolić, M. M.**, Nehorai, A., Djordjević, A.R., "Iterative sparse through-the-wall imaging," *7th IEEE Sensor Array Multichannel Signal Processing Workshop (SAM)* NJ, USA, 2012.

- 3.13 **Nikolić, M. M**, Nehorai, A., Djordjević, A.R., "Two-step (estimate and detect) sparse imaging," *IEEE International Symposium on Antennas and Propagation (APSURSI)*, Chicago, USA, 2012.
- 3.14. **Nikolić, M. M**, Nehorai, A., Djordjević, A.R., " Iterative Sparse-Based Algorithm for Through-the-Wall-imaging," *IEEE International Symposium on Antennas and Propagation (APSURSI), Memphis, Tennessee, USA, 2014.*
- 3.15. **Nikolić, M. M**, Nehorai, A., Djordjević, A.R., "Multipole-based sparse electromagnetic imaging," *IEEE International Conference on Antenna Measurements & Applications*, Nice, France, 2014.
- 3.16. Milošević N., **Nikolić M. M.**, Kolundžija B., and Musić J., "Numerical heterogeneous breast phantoms with different resolutions," *9th European Conference on Antennas and Propagation (EuCAP)*, 2015, Lisbon, 13-17 April 2015.
- 3.17. **Nikolić M. M.**, Dinkić J., Milošević N., and Kolundžija B., "Sparse localization of tumors inside an inhomogeneous breast," *International Conference on Electromagnetics in Advanced Applications (ICEAA)*, 2015.
- 3.18 **Stevanovic Nikolic M.**, Scapaticci R., and Crocco L., "Compressive sensing techniques for brain stroke monitoring," *2016 10th European Conference on Antennas and Propagation (EuCAP)*, Davos, 2016, pp. 1-4.
- 3.19. **Nikolić M.**, Dinkić J., Music J., and Nehorai A., "Sparse Microwave Breast Imaging with Differently Polarized Arrays," *Proc. of EUSIPCO*, Budapest, Hungary 2016.