

Snežana Đurić

BioSense Institute, University of Novi Sad
Dr Zorana Đinđića 1, 21000 Novi Sad, Serbia
Email: snisko@uns.ac.rs, snezana@biosense.rs
Phone: +381 21 485 2138

Education

Faculty of Technical Sciences, University of Novi Sad, Serbia
PhD in Electrical and Computer Engineering, 2013

Faculty of Technical Sciences, University of Novi Sad, Serbia
Master in Electrical and Computer Engineering, 2007

Work Experience

- 2008 – 2011 Research assistant, Department of power, electronics and communications, Faculty of Technical Sciences, University of Novi Sad
- 2011 – 2014 Research associate, Department of power, electronics and communications, Faculty of Technical Sciences, University of Novi Sad
- 2014 – July 2015, Research Assistant Professor, Department of power, electronics and communications, Faculty of Technical Sciences, University of Novi Sad
- July 2015 - Research Assistant Professor, BioSense Institute, University of Novi Sad

Fields of interest

Nano and microtechnologies, design, modeling, optimization, fabrication and characterization of devices (sensors, inductors, transformers, supercapacitors, energy harvesting).

Reviewer

- *IEEE Transactions on Industrial Electronics*
- *IEEE Transactions on Power Electronics*
- *IEEE Transactions on Magnetics*
- *IEEE Sensors Journal*
- *IET Electronics Letters*
- *International Journal of Applied Electromagnetics and Mechanics*
- *Microelectronics Journal*

Grants

Student travel grant to attend “The 11th Joint MMM/Intermag Conference”, January 18-22, 2010, Washington, DC, granted by Conference Organizing Committee

Scholarship to attend IEEE Magnetics Society Summer School, May 22-28, 2011, New Orleans, USA, granted by IEEE Magnetics Society

Projects

National projects

- 2008 – 2010 New configuration of ferrite transformers and EMI suppressors for DC/DC convertors and telecommunications' modules, Grant TR 11023
- 2011 – 2015 Innovative electronic components and systems based on inorganic and organic technologies embedded in consumer goods and products, Grant TR 32016
- 2011-2015 Synthesis of nanopowders and processing of ceramics and nanocomposites with specific electric and magnetic properties for application in integrated passive components, Grant III 45021
- 2015- Development of new information and communication technologies, based on advanced mathematical methods, with applications in medicine, telecommunications, power systems, protection of national heritage and education, Grant III 44006
- 2016-2017 Wearable electronics for application in precision agriculture, the Provincial Secretariat for Science and Technological Development of Vojvodina, Serbia, Grant 114-451-555/2016-02, Principal Investigator

International projects

- Reinforcement of the Center for Integrated Microsystems and Components (ReCIMiCo), proposal No.:043669, 2007-2009
- 2009-2012 New Generation of 3D Integrated Passive Components and Microsystems in LTCC Technology, the EUREKA Project E!4570 IPCTECH, 2009-2012
- 2016-2020 COST Action CA15128 Molecular Spintronics (MOLSPIN), MC Member

Publications

Journal papers

1. Djuric S., Dubourg G.: "Fractal inductors on flexible plastic substrate fabricated by laser ablation," *Microelectronic Engineering*, Vol. 168, pp. 10-14, 2017.
2. Djuric S., Dubourg G., Savic S.: "Performance analysis of fractal transformers fabricated by laser ablation on a flexible magnetic substrate," *Microelectronic Engineering*, Vol. 179, pp. 67-73, 2017.
3. Djuric N., Antic D., Kljajic D., Fanti A., Djuric S.: "The SEMONT's database support for quad-band monitoring of EMF exposure," *Measurement*, Vol. 99, pp. 78-89, 2017.
4. Djuric S.: "Koch fractal inductors printed on flexible substrate," *Electronics Letters*, Vol. 52, No. 8, pp. 581-583, 2016.

5. Djuric S., Djuric N., Damjanovic M.: "The optimal useful measurement range of an inductive displacement sensor," *Informacije MIDEM – Journal of Microelectronics, Electronic Components and Material*, Vol. 45, No. 2 (2015), 132 – 141.
6. Djuric S.: "Performance Analysis of a Planar Displacement Sensor With Inductive Spiral Coils," *IEEE Transactions on Magnetics*, Vol. 50, No. 4., Article#: 4004104, April 2014.
7. Djuric S., Stojanovic G.: "A compact planar transformer with an improved winding configuration," *IEEE Transactions on Magnetics*, Vol. 50, No. 11., Article#: 8402204, November 2014
8. Djurić S., Stojanovic G., Damnjanovic M., Laboure E.: "Analysis of the coupling effect in different meander-type winding planar transformers," *IEEE Transactions on Magnetics*, Vol. 49, No. 7, pp. 3993-3996, July 2013.
9. Djuric S., Stojanovic G., Damnjanovic M., Radovanovic M., Laboure E.: "Design, modeling, and analysis of a compact planar transformer," *IEEE Transactions on Magnetics*, Vol. 48, No. 11, pp. 4135-4138, 2012.
10. Djuric S., Nagy L., Damnjanovic M., Djuric N., Zivanov Lj.: "A novel application of planar-type meander sensors," *Microelectronics International*, Vol. 28, No. 1, pp. 41 – 49, 2011.
11. Brkic M., Djuric S., Damnjanovic M., Nagy L.: "Signal-Processing Interface for Displacement Measurement," *Sensor Letters*, Vol. 11, No. 8, pp. 1426 - 1431, 2013.
12. Lecic N., Stojanovic G., Djuric S., Laboure E.: "Design and analysis of planar symmetric six-phase coupled inductors," *IEEE Transactions on Magnetics*, Vol. 51, No. 6, Article number #8400908, 2015.
13. Pajkanovic, A., Stojanovic G., Djuric S.: "Performance analysis of meander-type inductor in silicon and flexible technology," *Microelectronics Journal*, Vol. 56, pp. 57-64, 2016.
14. Damnjanovic M., Zivanov Lj., Djuric S., Maric A., Menicanin A., Radosavljevic G., Blaz N.: "Characterization and modelling of miniature ferrite transformer for high frequency applications," *Microelectronics International*, Vol. 29, No. 2, pp. 83-89, ISSN 1356-5362, 2012.
15. Damnjanovic M., Zivanov Lj., Nagy L., Djuric S., Biberdziz B.: "A novel approach to extending the linearity range of displacement inductive sensor," *IEEE Transactions On Magnetics*, Vol. 44, No. 11, pp. 4123 – 4126, 2008.

Conference papers

1. Djuric S., Nagy L., Biberdzic B., Damnjanovic M., Zivanov Lj.: “Planar inductive sensor for small displacement,” *MIEL 2008: 26th International Conference on Microelectronics*, ISBN 978-1-4244-1881-7, pp. 345 – 348, 2008.
2. Djuric S., Damnjanovic M., Nagy L., Zivanov Lj., Djuric N.: “Displacement inductive sensor: Simulation tool Algorithm,” *Eurocon 2009: International IEEE Conference Devoted to the 150 Anniversary of Alexander S. Popov*, ISBN 978-1-4244-3860-0, pp. 671–676, 2009.
3. Djuric S., Nagy L., Damnjanovic M.: “Inductive displacement sensor for force measuring in humanoid robotic application testing the invariance on angular displacement,” *SENSORCOMM 2009: 3rd International Conference on Sensor Technologies and Applications*, ISBN 978-0-7695-3669-9, pp. 100 – 104, 2009.
4. Djuric S., Nagy L., Damnjanovic M.: “Determination of the acting point of contact force in a foot of humanoid robot using inductive displacement sensor,” *SISY 2009: 7th International Symposium on Intelligent Systems and Informatics*, ISBN 978-1-4244-5349-8, pp. 49 – 52, 2009.
5. Djuric S., Nagy L., Damnjanovic M.: “Detection of ground reaction force using a miniaturized inductive displacement sensor,” *14th International Power Electronics and Motion Control Conference (EPE/PEMC)* ISBN 978-1-4244-7856-9, pp. T15-7 – T15-12, 2010.
6. Mirjana Damnjanovic, Ljiljana Zivanov, Aleksandar Menicanin, Milica Kisic, Cedo Zlebic, Snezana Djuric, and Goran Stojanovic: “Learning EMC/EMI Design Problems Using Simulation Tool and Measurement Techniques”, *48th International Conference on Microelectronics, Devices and Materials MIDEM*, ISBN 978-961-92933-2-4, pp. 225-230, 2012.
7. S. Djuric, G. Stojanovic, M. Radovanovic, M. Damnjanovic and E. Laboure: “Design and Analysis of a Compact Planar Transformer for DC/DC Converter Application”, GH-07, *INTERMAG 2012*, 7-11 May, Vancouver, Canada, 2012.
8. S. Djuric, G. Stojanovic, M. Damnjanovic: “Analysis of Meander-type Winding PCB Transformers for Application in DC/DC Converters”, FG-11, *12th Joint MMM-INTERMAG Conference*, 14-18 January, Chicago, USA, 2013.
9. S. Djuric, G. Stojanovic: “Performance analysis of a compact planar transformer with an improved winding configuration”, FA-7, *INTERMAG 2014*, 4-8 May, Dresden, Germany, 2014.

Membership

IEEE Magnetics Society
IEEE Power Electronics Society