


PERSONAL INFORMATION

Aurel-Sorin Lup



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EDUCATION AND TRAINING

01/10/2012–Present

PhD. Studies

Polytechnic University of Bucharest, Bucharest (Romania)

Electrical Engineering and Computer Science

2010–2012

Master Studies

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

Electric Engineering - Electromagnetic Modeling, CAD/CAE

2006–2010

Bachelor study

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

Electric Engineering - Electric Systems

WORK EXPERIENCE

11/2014–Present

Teaching Assistant

Politehnica University of Bucharest, Bucharest (Romania)

Teaching laboratories and seminars in the subjects:

- Numerical Methods in Electrical Engineering
- Electrical Circuits

01/2013–12/2014

Research Assistant

Politehnica University of Bucharest, Bucharest (Romania)

Bilateral research project ROMANIA-TURKEY: Advanced Software Tools for Electromagnetic Modeling and Optimization (ASTEMO)

10/2012–Present

Research Assistant

Politehnica University of Bucharest, Bucharest (Romania)

Research Project entitle: Advanced Tools and Methodologies for the Multiphysics Modelling and Simulation of RF MEMS Switches (ToMeMS).

01/2011–12/2011

Research Assistant

Technical University of Cluj-Napoca, Cluj-Napoca (Romania)

Research Project Entitled: Integrated software package for analysis and prediction of electromagnetic pollution levels of SEN stations and lines on neighbouring structures that their cathodic protection.

03/2012–06/2012 **Electrical Engineer**

TELICE/IEMN group, Universite des Sciences et Technologies of Lille, Lille (France)

Erasmus internship with the aim of developing the Master Thesis. Thesis developed: Study of electromagnetic field distribution inside a reverberation chamber.

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	B1	B1	B1	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills Good communication skills, due to teamwork within different research projects in which I was involved and pedagogical activities

- Job-related skills
- Electromagnetic Field Theory
 - Numerical Modeling of Electromagnetic Field
 - Optimal Design of Electromagnetic Devices
 - Electrical Circuits Theory

Computer skills C/C++, C # (C sharp), CST Microwave Studio (CST Studio Suite), Ansoft Maxwell 14, Comsol Multiphysics, Mathematica, OrCad, Solid Works, AutoCAD, MatLab, Mathcad

Driving licence B

ADDITIONAL INFORMATION

- Publications
1. Adina RĂCĂȘAN, Călin MUNTEANU, Vasile ȚOPA, Claudia PACURAR, Claudia HEBEDEAN and **Sorin LUP**, Advances on Parasitic Capacitance Reduction of EMI Filters, Analele Universitatii din Craiova- Seria Inginerie Electrica (Categoria B: Cod CNCSIS 174), ICATE 2010, Craiova, Romania, October 8-9, 2010, pp. 220-223, ISSN 1842-4805.
 2. Adina RĂCĂȘAN, Călin MUNTEANU, Vasile ȚOPA, Claudia PACURAR, Claudia HEBEDEAN and **Sorin LUP**, Reducing the Parasite Capacitance of EMI Filters using the Staggered Winding, buletinul institutului politehnic din Iasi sectia: Electrotehnica, Energetica, Electronica, (Categoria B+ Cod CNCSIS 87) EPE2010, Iași, România, October 28-30, 2010, pp. 107-110, ISBN 978-606-13-0071-6.
 3. **Sorin LUP**, Calin MUNTEANU, Sylvie BARANOWSKI, Lamine KONÉ, 3D Numerical Simulation of the Stirrer Effect inside a Reverberation Chamber, EPE2012, 25-27 Octombrie 2012, Iași, România pp.672,675, 25-27 Oct. 2012 DOI: 10.1109/ICEPE.2012.6463855, WOS:000324685300122
 4. C. MUNTEANU, I. T. Pop, V. TOPA, C. HANGEA, T. GUTIU, **S. LUP**, Study of the Magnetic Field Distribution inside Very High Voltage Substations, EPE2012, 25-27 Octombrie 2012, Iași, România, DOI: 10.1109/ICEPE.2012.6463571, WOS:000324685300119
 5. Gabriela CIUPRINA, **Aurel Sorin LUP**, Alina TOMESCU, "Parametrii S în Aplicații de Înaltă Frecvență", publicată în revista Lucrările Simpozionului Național de Electrotehnică Teoretică, SNET2012, ISSN 2067-4147 (online), 6 pagini.

6. Andreea Alexandru, **Sorin Lup**, Bogdan Diță, "GDS2M Preprocessing Tool for MEMS Devices" Proceedings of the 8th International Symposium on Advanced Topics in Electrical Engineering, ATEE2013, May 23-25, 2013, Bucharest, Romania, 4 pages, ISBN 978-1-4673-5978-8, DOI: 10.1109/ATEE.2013.6563451, WOS:000332928500105
7. **Aurel-Sorin Lup** and Gabriela Ciuprina, Analysis of membrane perforations on the RF behavior of capacitive MEMS switches, Acta Electrotehnica, ISSN 1841-3323 vol. 54, no.5, pp. 252-255,2013. – CNCSIS categoria B+ BDI VINITII (Russia), DOAJ (Sweden).
8. Gabriela Ciuprina, **Aurel-Sorin Lup**, Bogdan Diță, Daniel Ioan, Ștefan Sorohan, Dragoș Isvoranu, and Sebastian Kula "Mixed Domain Macromodels for RF MEMS Capacitive Switches", The 10th International Conference on Scientific Computing in Electrical Engineering, SCEE 2014, July 22 - July 25, 2014, Wuppertal, Germany, SCEE 2014 Proceedings, 8 pages (ISI-WOS).
9. **Aurel-Sorin LUP**, Gabriela CIUPRINA, Stefan SOROHAN "Parametric Multiphysics Static Models for a Bridge Type MEMS Capacitive Switch", Conference Proceedings of 49th Universities' Power Engineering Conference - UPEC2014, 02-05 september 2014, Cluj-Napoca, Romania, ISBN: 978-1-4799-6556-4; ISBN: 978-1-4799-6557-1/14/©2014 IEEE, 4 pages.
10. **Aurel-Sorin LUP**, Gabriela Ciuprina, Alexandra Ștefanescu, "Extraction of effective elastic coefficients from a coupled structural electrostatic simulation of a MEMS switch", International Symposium on Fundamentals of Electrical Engineering, ISFEE2014; 28-29 november 2014, Bucharest, Romania. ISBN: 978-1-4799-6821-3 (IEEE Xplore)
11. Sebastian Kula and **Aurel-Sorin LUP** "Electrical schematics for 1d analysis of a bridge type MEMS capacitive switch", accepted in Computer Applications in Electrical Engineering under the auspices of Electrical Engineering committee of Polish Academy of Sciences and IEEE Poland section, 14 pages