



Curriculum vitae Europass



Personal information

First name(s) / Surname(s)

SORIN MUŞUROI

Address(es)

1A Glad Street, Timișoara 300478, Romania.
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Nationality

Romanian

Date of birth

April 13rd 1961

Gender

male

Desired employment / Occupational field

Politehnica University of Timișoara, Faculty of Electrical and Power Engineering, Dept. Of Electrical Engineering, Timișoara, Associate Professor Ph.D.

Work experience

Dates

2013 - present

Occupation or position held

Dean of Faculty of Electrical and Power Engineering

Main activities and responsibilities

Teaching and research activities, students practice guidance

Name and address of employer

Politehnica University of Timișoara, 2 Piata Victoria, Timișoara 300006, Romania

Type of business or sector

Teaching in higher education; research, students practice guidance activities

Dates

2012-2013

Occupation or position held

President of Ethics Committee of Politehnica University of Timișoara

Main activities and responsibilities

Academic ethics assurance and compliance

Name and address of employer

Politehnica University of Timișoara

Type of business or sector

Teaching in higher education

Dates

2007-present

Occupation or position held

Associate Professor

Main activities and responsibilities

Teaching and research activities, students practice guidance

Name and address of employer

Politehnica University Timișoara, Faculty of Electrical and Power Engineering

Type of business or sector

Teaching in higher education; research, students practice guidance activities

Dates

2008 –2012

Occupation or position held

Scientific secretary of Faculty of Electrical and Power Engineering

Main activities and responsibilities

Academic scientific research, scientific guidance activities for students

Name and address of employer

Politehnica University of Timișoara, Faculty of Electrical and Power Engineering

Type of business or sector

Scientific research

Dates	2000-2007
Occupation or position held	Lecturer
Main activities and responsibilities	Academic scientific research, scientific guidance activities for students
Name and address of employer	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Scientific research
Dates	1995-2000
Occupation or position held	Assistant
Main activities and responsibilities	Academic scientific research, scientific guidance activities for students
Name and address of employer	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Scientific research
Dates	1990-1995
Occupation or position held	Associated assistant
Main activities and responsibilities	Academic scientific research, scientific guidance activities for students
Name and address of employer	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Scientific research
Dates	1990-1995
Occupation or position held	Engineer
Main activities and responsibilities	Electrical machines design
Name and address of employer	Electromotor SA Timișoara
Type of business or sector	Electrical machines design
Dates	1989-1990
Occupation or position held	Head of trial stand on electrical machines
Main activities and responsibilities	Activity on testing electrical machines, coordination of human activities
Name and address of employer	ICM Reșița
Type of business or sector	Activity on testing electrical machines, personal coordination, development of trial stand
Dates	1987-1990
Occupation or position held	Trainee Engineer
Main activities and responsibilities	Activity on testing electrical machines
Name and address of employer	ICM Reșița
Type of business or sector	Activity on testing electrical machines
Education /degrees	PhD. in technical sciences
Dates	1992- 2000
Principal subjects / occupational skills	Fundamentals of Electrical Engineering, Higher Mathematics, Electric Machines, Power Converters, Electric Drives.
Name and type of education institute / training provider	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
Education /degrees	Engineer

Dates | 1981-1987

Principal subjects / occupational skills | **Principal subjects:** Mathematics, Physics, Electrical Fundamentals of Electrical Engineering, Electric machines and Drives, Power Electronics, Automation etc.
Occupational skills: scientific research, design electrical equipment, pedagogical and teaching skills, teamwork skills, working skills in an international and intercultural environment;

Name and type of education institute / training provider | "Traian Vuia" Polytechnic Institute of Timișoara, Faculty of Electrical Engineering

Education /degrees | **Baccalaureate**

Dates | 1976-1980

Principal subjects / occupational skills | Romanian Language and Literature, Mathematics, Physics, Chemistry, Biology, History, Geography etc.

Name and type of education institute / training provider | Philology-History High School of Timișoara

Personal skills and competences

Mother tongue(s) | **Romanian**

Other language(s) | **English, Deutch, French**

Self-assessment <i>European level (*)</i>	Understanding				Speaking				Writing	
	Listening		Reading		Spoken interaction		Spoken production			
English	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
Deutch	C1	Independent user	C1	Independent user	C1	Independent user	B2	Independent user	B2	Independent user
Franch	B2	Independend user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Social skills and competences | Active social participation, Communication, Cooperation, establishment of teams and teamwork
Understanding the nature of community and involvement ,Assuming the roles and establishing relationships in a democratic society, Assumption of duties and responsibilities

Organisational skills and competences | Teamwork , Analytical Thinking, Strategic Perspective, Building teams, Communication
Counseling, Creativity, Adoption of decisions, Delegation of tasks,

Focus on results, Searching and collecting information, Making judgments / reasons
Leadership,Self-Learning, Motivation, Negotiation and persuasion,Problem solving

Technical skills and competences | Basic scientific research , Developing scientific papers
Implementation of research contracts, Proficiency in working with computers
Proficiency usage of multimedia tools for presenting information
Skills in analysis, calculation and design of electrical systems with modular components using specific softwares
Knowledge and application of measurement techniques and problems of electromagnetic compatibility for electrical systems, Computer-aided design
Design and construction of power conversion equipment as well as modeling and simulation of their operation
Knowledge and application of measurement techniques, testing, diagnosis and specific EMC power electronics and electric drive systems
Skills in using information technology and mathematical models for calculating, modeling, simulation and optimization of specific equipment such as energy conversion systems
Using professional components for achieving real-time applications in autonomous systems, including IT infrastructure operation.

Other skills and competences | sports

Driving licence | B Category

Additional information Scientific activities:

- 5 books, courses
- over 85 scientific papers in national and international journals

SELECTED PAPERS:

1. **Muşuroi Sorin**, Olărescu Nicola Valeriu, Vătău Doru, Şorândaru Ciprian, *Equivalent parameters of induction machines windings in permanent regime. Theoretical and experimental determination*, Proc. of the 9th WSEAS International Conference on POWER SYSTEMS (PS '09), Budapest Tech, Hungary, 3-5 Septembrie, pp. 55-62, ISBN 978-960-474-112-0, ISSN 1790-5117, 2009 – **ISI Proceedings**.
2. **Muşuroi Sorin**, Şorândaru Ciprian, Olărescu Nicola Valeriu, Marcus Svoboda, *Mathematical Model of Three-Phase Asynchronous Servomotors in Stationary Non-sinusoidal Regime*, Proc. of the 9th WSEAS International Conference on POWER SYSTEMS (PS '09), Budapest Tech, Hungary, 3-5 Septembrie, pp. 123-126, ISBN 978-960-474-112-0, ISSN 1790-5117, 2009 – **ISI Proceedings**.
3. **Muşuroi Sorin**, Vătău Doru, Andea Petru, Şurianu Flaviu, Frigură-Iliasa Flaviu, Bărbulescu Constantin, *Analysis of the Magnetic Losses from the Induction Machines Supplied by Inverters*, Proc. of The International Conference on Computer as a Tool, EUROCON 2007, Warsaw, Poland, 9-12 Septembrie, pp. 1800-1809, ISBN 1-4244-0813-X, 2007 – **ISI Proceedings**.
4. **Muşuroi Sorin**, Svoboda Marcus, Şorândaru Ciprian, Koblara Thomaque, Olărescu Nicola Valeriu, *Deep bar effects produced by PWM power supplies in induction machines: Application to rotor Parameters determination*, Conf. Proc. of Int. Conf. on Computer as a Tool, EUROCON 2011, Lisbon, 27 - 29 Aprilie, 4 pagini, ISBN 978-142447486-8, 2011 – **Index. IEEE, SCOPUS, INSPEC**.
5. **Muşuroi Sorin**, Şorândaru Ciprian, Greconici Marian, Olărescu Nicola Valeriu, Weinman Martin, *Low-Cost Ferrite Permanent Magnet Assisted Synchronous Reluctance Rotor an Alternative Solution for Rare Earth Permanent Magnet Synchronous Motors*, Proc. of 39th Annual Conf. of the IEEE Industrial-Electronics-Society, Vienna, 10-14 Nov., pp. 2966-2970, ISBN 978-1-4799-0224-8, ISSN 1553-572X, 2013 – **ISI Proceedings**.
6. Şorândaru Ciprian, **Muşuroi Sorin**, Svoboda Marcus, Olărescu Nicola Valeriu, Popovici Dorin, *Field Oriented Control Drives for Naval Mechanism*, Proc. EUROCON 2009, Int. Conference of IEEE, Saint Petersburg, Russia, 18-23 Mai, pp. 717-720, ISBN 978-1-4244-3861-6, 2009 – **ISI Proceedings**.
7. Olărescu Nicola Valeriu, **Muşuroi Sorin**, Şorândaru Ciprian, Frigură-Iliasa Flaviu, Mihai, *Scalar control systems with permanent magnet synchronous motors with sinusoidal current control. Calculatin of speed controller parameters*, Revue Roumaine des Sciences Techniques. Serie Electrotechnique et Energetique, Tome 57, Issue 1, pp. 70-79, ISSN 0035-4066, 2012 – **Journal ISI**.
8. Olărescu Nicola Valeriu, **Muşuroi Sorin**, *Enhanced Simplified Control Algorithm for Surface-mounted Permanent Magnet Synchronous Motors with Sinusoidal Excitation*, Conference IPEMC 2004, Xi'am, China, 14-16 August, pp. 1049-1053, ISBN 7-5605-1869-9, 2004 – **ISI Proceedings**.
9. Olărescu Nicola Valeriu, **Muşuroi Sorin**, Şorândaru Ciprian, Weinmann Martin, Zeh Stefan, *Optimum Current Control for Wide Speed Range operation of PMSM Drive Without regenerative Unit Utilizing PWM-VSI Overmodulation*, Proceedings OPTIM 2012, Braşov, 24-26 Mai, pp. 612-617, ISBN 978-1-4673-1652-1, 2012- **Indexată IEEE, SCOPUS, INSPEC**.
10. Olărescu Nicola Valeriu, Weinmann Martin, Zeh Stefan, **Muşuroi Sorin**, Şorândaru Ciprian, *Control of Wide Speed Range PMSM Drives with Large DC-Link Variations without Regenerative Unit utilizing PWM-VSI overmodulation*, Proc. ECCE 2012, Raleigh, North Carolina, 15-20 Septembrie, pp. 831-837, ISBN 978-1-4673-0801-42012, 2012 – **ISI Proceedings**.

14 GRANTS AND SCIENTIFIC RESEARCH CONTRACTS

1. *Analysis and Evaluation of Current Topologies and Solutions for three phase Power Factor Correction (PFC) for 400 V mains voltage*, BCI 1/24.01.2014, Diehl AKO Stiffung&Co.KG Germania, 13000 Euro – **Manager**.
2. *Analysis and Evaluation of Current Topologies and Solutions for the Single Phase Power Factor Correction (PFC) for Grid Tied Inverters*, BCI 1/28.01.2013, Diehl AKO Stiffung&Co.KG Germania, 15000 Euro – **Manager**.
3. *Contract for research-development and consultancy*, 9228/6.07.2010, Diehl AKO Stiffung&Co.KG Germania, 14000 Euro – **Manager**.
4. *La Qualite de l'energie electriques transferee entre l'Europe de l'Est et l'Europe de l'Oues*, Research and development grant **Politehnica University of Timisoara - coordinating**, Universite Paul Sabatier de Toulouse, University of Chemical Technology and Metallurgy of Sofia, 15000 Euro No. AUF- 6301PS426, 27.02.2004, ongoing 2005-2007 – **Responsible UPT**.

5. *Electric Drives with Vector Control for Induction Motors Implemented in Naval Mechanisms* CNCSIS, Partnership Univ. Politehnica Timișoara, Naval Academy Constanța, GR 226 2006, 144000 RON – **Responsible UPT.**

Member in scientific and professional association:

- IEEE Member; VDI Member
- Who's who in the world, 2010.
- Professor Bologna 2009.

Timișoara
13.06.2014

Associate Professor, PhD.
Sorin MUȘUROI