



Curriculum vitae Europass



Personal information

First name(s) / Surname(s) **SORIN MUŞUROI**
Address(es) Politehnica University Timișoara, 2 Piata Victoriei, 300001 Timișoara, Romania.
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+40256/403014 – Vice Rector Office
E-mail sorin.musuroi@upt.ro
Nationality Romanian
Date of birth
Gender Male

Desired employment / Occupational field Politehnica University Timișoara, Faculty of Electrical and Power Engineering,
Dept. of Electrical Engineering, Timișoara, Prof. Ph.D. Eng. Habil.

Work experience

Dates 2020-present
Occupation or position held **Vice Rector of Politehnica University Timișoara**
CNATDCU Member of the Electrical Engineering Committee since 2016
Corresponding Member at Romanian Scientists Academy since 2019
Vice President of the Romanian Scientists Academy's Subsidiary in Timisoara

Main activities and responsibilities
Coordination of the activities within the Department of Image and Communication
Management of the relations with the economic environment and the public sector
Coordinating the elaboration of the policies regarding the entrepreneurship activities
Coordination of the Politehnica University Timișoara Library
Coordination of the activities regarding the publications of the Politehnica University Timișoara and the Politehnica Publishing House
Coordination of the relations with the Steering Committee
Evaluation of the supporting documentation for granting the PhD degrees, validation of the habilitation theses
Academic scientific research activity
Name and address of employer Politehnica University Timișoara
Type of business or sector Academic management of the University

Dates 2013-2020
Occupation or position held **Dean of Faculty of Electrical and Power Engineering**

Main activities and responsibilities	Managing issues relating to curricula, disciplines, faculty material base, promoting the image of the faculty and solving student related problems
Name and address of employer	Politehnica University Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Administrative activity
Dates	2015-present
Occupation or position held	Ph.D. Supervisor
Main activities and responsibilities	Leadership of doctoral theses in Electrical Engineering field
Name and address of employer	Politehnica University Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Leading Ph.D. theses and being member of the board of Ph.D. theses examiners
Dates	2015-present
Occupation or position held	Professor
Main activities and responsibilities	Teaching activities at the disciplines: Fundamentals of Electric Drives, Electrical Actuators and Intelligent Control of movement, Embedded Systems in Industry and research activities in projects or contracts won by competition with third parties
Name and address of employer	Politehnica University Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Teaching in higher education, scientific research
Dates	2012-2013
Occupation or position held	President of Ethics Committee of Politehnica University Timișoara
Main activities and responsibilities	Academic ethics assurance and compliance, sanctioning deviations from ethics
Name and address of employer	Politehnica University Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Activities related to academic ethics assurance and compliance
Dates	2007-2015
Occupation or position held	Associate Professor
Main activities and responsibilities	Teaching activities at the disciplines: Fundamentals of Electric Drives, Electrical Actuators and Intelligent Control of movement, Embedded Systems in Industry and research activities in projects or contracts won by competition with third parties.
Name and address of employer	Politehnica University Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Teaching in higher education, scientific research
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	Teaching activities at the disciplines: Electric Drives I, Design of Electric Drives, Electrical Actuators and Intelligent Control of movement, Embedded Systems.
Name and address of employer	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Teaching in higher education, scientific research
Dates	1995-2000
Occupation or position held	Assistant
Main activities and responsibilities	Teaching activities at the disciplines: Electric Drives I, Electric Machines, Power Electronics for Electric Drives, Manufacturing Technology of Electrotechnical Products.
Name and address of employer	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
Type of business or sector	Teaching in higher education, scientific research
Dates	1990-1995
Occupation or position held	Associated assistant
Main activities and responsibilities	Teaching activities at the disciplines: Manufacturing Technology of Electrotechnical Products, Manufacturing Technology of Electric Machines and Electrotechnics taught in German.
Name and address of employer	Politehnica University of Timișoara, Faculty of Electrical and Power Engineering
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	Habilitation thesis in electrical engineering field
Presentation date	19.01.2015
Recognition	OMECS 4209 from 10.06.2015
Education /degrees	Ph.D. in technical sciences
Dates	1992- 2000

Principal subjects / occupational skills | Fundamentals of Electrical Engineering, Higher Studies in Mathematics, Electric Machines, Power Electronics, 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, Fundamentals of Electrical Engineering, Electric machines and Drives, Power Electronics, Automation etc.

Occupational skills: scientific research, electrical equipment design, 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

European level (*)

English

Deutch

Franch

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user
C1	Independent user	C1	Independent user	C1	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences | Active social participation, Communication, Cooperation, Establishment of teams and teamwork, Understanding the nature of community and involvement, Assuming 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, Decisions adoption, Delegation of tasks,

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

<p>Technical skills and competences</p>	<p>Basic scientific research , developing scientific papers, implementation of research contracts.</p> <p>Proficiency in working with computers, proficiency usage of multimedia tools for presenting information.</p> <p>Skills in analysis, calculation and design of electrical systems with modular components using specific softwares.</p> <p>Knowledge and application of measurement techniques and problems of electromagnetic compatibility for electrical systems and their computer-aided design.</p> <p>Design and construction of power conversion equipment as well as modeling and simulation of their operation.</p> <p>Knowledge and application of measurement techniques, testing, diagnosis and specific EMC power electronics and electric drive systems.</p> <p>Skills in using information technology and mathematical models for calculating, modeling, simulation and optimization of specific equipment such as energy conversion systems.</p> <p>Using professional components for achieving real-time applications in autonomous systems, including IT infrastructure operation.</p>
<p>Other skills and competences</p>	<p>sports</p>
<p>Driving licence</p>	<p>B Category</p>
<p>Additional information</p>	<p>Scientific activities:</p> <ul style="list-style-type: none"> - 7 books, courses - 120 scientific papers published in national and internationals journals/proceedings

SELECTED PAPERS:

1. Vătău Doru, **Muşuroi Sorin**, Bărbulescu Constantin, Babescu Marius, *PV systems modeling and optimal control*, Energy Conversion and Management, Volume 84, August 2014, pp. 448-456, ISSN 0196-8904, Impact factor 4,38 (red zone) – **ISI Journal**.
2. **Muşuroi Sorin**, Şorândaru Ciprian, Erdodi Gheza-Mihai, Petrescu Doru-Ionuţ, *Wind System with Storage in electrical Accumulators*, Proc. of the 9th International Symposium on Advanced Topics in Electrical Engineering, Bucharest, 7-9 May, pp. 797-802, ISBN 978-1-4673-8093-5, 2015 – **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 – **Indexed 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 – **ISI Journal**.
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 - **Indexed 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**.

16 GRANTS AND SCIENTIFIC RESEARCH CONTRACTS – the 5 most important are listed

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 Stiftung&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 Stiftung&Co.KG Germania, 15000 Euro – **Manager**.
3. *Contract for research-development and consultancy*, 9228/6.07.2010, Diehl AKO Stiftung&Co.KG Germania, 14000 Euro – **Manager**.
4. *La Qualite de l'energie electrique transferee entre l'Europe de l'Est et l'Europe de l'Ouest, 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 from 27.02.2004, between 2005-2007 – **UPT Responsible**.
5. *Electric Drives based Induction Motors Vector Control Implemented for Naval Mechanisms* CNCSIS, Partnership Univ. Politehnica Timișoara, Naval Academy Constanța, GR 226 2006, 144000 RON – **UPT Responsible**.

Member of the Editorial Board of the following BDI scientific journals:

- *International Journal of Electromagnetics and Applications* since 2010,
- *American Journal of Electrical and Electronic Engineering* since 2011.

Member of the *Eurostampa* Publishing board.

Member of the International Coordination Committee of ISI Indexed Conferences

- *ACEMP-OPTIM-ELECTROMOTION* 2015;
- *The 9th International Symposium on Advanced Topics in Electrical Engineering*, Bucharest, 2015.

Reviewer of various ISI Indexed Conferences:

- *Annual IEEE Energy Conversion Congress&Exposition ECCE*, 2012, 2013, 2014, 2015;
- *International Conference on Optimization of Electrical and Electronic Equipment OPTIM* 2012;
- *ACEMP-OPTIM-ELECTROMOTION*, 2015;
- *The 9th International Symposium on ADVANCED TOPICS IN ELECTRICAL ENGINEERING*, 2015.

Member of various scientific and professional societies:

- **Membru IEEE;**
- **Membru IEEE Industrial Electronics Society**
- **Membru IEEE Industry Applications Society**
- **Membru IEEE Power Electronics Society**
- **Membru APISE**
- **Membru VDI.**
- **Who's who in the world, 2010, 2011, 2012.**
- **Professor Bologna 2009.**

I am aware that, under Article 26 of Law 15/68, false declarations, false acts and the use of false acts are punished based on the criminal code and special laws. Also I authorize the processing of personal data, based on law 675/96 from December 31st 1996.

Timișoara
18.03.2020

Prof. Ph.D. Eng. Habil. Sorin MUȘUROI