

## CURRICULUM VITAE

1. Nume: CARP

2. Prenume: Marius Cătălin

3. Data și locul nașterii: 26.01.1980, Brașov

4. Cetățenie: Română

5. Studii: Doctorat

### Universitare/postuniversitare/doctorat

Instituția	Univ. TRANSILVANIA	Univ. TRANSILVANIA	Univ. TRANSILVANIA
Perioada: de la (anul) până la (anul)	1998 - 2003	2003 -2005	2008-2011
Grade sau diplome obținute	Diplomat inginer	Masterat	Doctor

### 6. Alte specializări și calificări:

[1] Certificat de absolvire a cursurilor de pregătire a personalului didactic

7. Titlul științific: Doctor inginer

### 8. Experiența profesională și didactică

Funcția	Tehnician	Inginer software	Asistent
Perioada	1999 – 2002	2003 - 2013	2008 - 2013
Instituția	Univ. TRANSILVANIA	SIEMENS PSE	Univ. TRANSILVANIA
Locul	Brașov	Brașov	Brașov

9. Locul de muncă actual: SIEMENS SRL

10. Vechime la locul de muncă actual: 10 ani

11. Limbi străine cunoscute: engleza, franceza

12. Lucrări elaborate și/ sau

#### 12.1. Carti

[1] G. PANA, **M.C. CARP**, "TEHNICI DE SIMULARE - Aplicații în ingineria electrică și electronică", Editura Universității Transilvania Din Brașov - 2011, ISBN: 978-973-598-991-0.

[2] P.N. BORZA<sup>1</sup>, M. SANDULEAC<sup>2</sup>, A.M. MUSAT<sup>1</sup>, **M.C. CARP**<sup>1</sup>, "Energy and Information", Publication: Engineering the Future, Interdisciplinary Chapter, Publisher: SCIYO, November 2010, ISBN 978-953-307-210-4

<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Brașov.

<sup>2</sup> - ECRO SRL Romania.

## 12.2. Lucrări publicate în reviste de specialitate

- [1] A. M. PUȘCAȘ, M. C. CARP, P.N. BORZA, I. SZÉKELY, "Measurement Considerations on Some Parameters of Supercapacitors", Acta Universitatis Sapientiae, Electrical and Mechanical Engineering, 30 june 2009, ISSN 2065-5916, Vol.I, pp.65-75.
- [2] P.N. BORZA, A.M. PUSCAS, M.C. CARP, "Energy-Optimized Electrical Systems for Land Transport Using Batteries and Supercapacitors: TRANS-SUPERCAP", European Research Consortium for Informatics and Mathematics, Number 79, ISSN 0926-4981, pp. 46 – 47.  
1 - Dept. of Electronics & Computers, Transilvania University of Brașov  
2 - Werkstoffe Technologien Transfer Consulting, Berlin, Rudower Chaussee 29 D-12489
- [3] P.N. BORZA, M.C. CARP, A.M. PUSCAS, D. SOJREF, D. TALABA, "Supercapacitors and their applications on vehicles", International Journal Engineering in Transportation, Belfort, IJEET, 2009, volume 4 - number 2, ISSN: 1773-9357, pp. 27-34.
- [4] A.M. PUSCAS<sup>1</sup>, M.C. CARP<sup>1</sup>, P.N. BORZA<sup>1</sup> and G. COQUERY<sup>2</sup>, "Electric And Thermal Characterization Of Inorganic Supercapacitors", Bulletin of the Transilvania University of Brasov • Vol. 3 (52) - 2010 Series I: Engineering Sciences, Brașov, 2010, Romania, ISSN: 2065-2119, pp. 293-298  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Brașov.  
<sup>2</sup> - INRETS Laboratoire des Technologies Nouvelles Arceuil, Paris, France.
- [5] M.C. CARP<sup>1</sup>, D. SOJERF<sup>2</sup>, P.N. BORZA<sup>1</sup>, G. TOACȘE<sup>1</sup>, A.M. PUȘCAȘ<sup>1</sup>, "Improving the Energy Management for LDH-1250HP Locomotive Using Embedded Systems", Buletinul Universitatii Transilvania, Brașov, 2008, Romania, ISSN: 2065-2119, pp. 311-316.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Brașov.  
<sup>2</sup> - INRETS Laboratoire des Technologies Nouvelles Arceuil, Paris, France.
- [6] A.M. PUȘCAȘ<sup>1</sup>, G. COQUERY<sup>2</sup>, P.N. BORZA<sup>1</sup>, I. SZEKELY<sup>1</sup>, M. CARP<sup>1</sup>, "State of the Art in Mobile Systems' Energy Management and Embedded Solutions for Improving the Energy Efficiency", Buletinul Universitatii Transilvania, Brașov, 2008, Romania, ISSN: 2065-2119, Vol. I (50), pp. 383-390.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Brașov.  
<sup>2</sup> - INRETS Laboratoire des technologies nouvelles Arceuil, Paris, France.
- [7] M.C. CARP<sup>1</sup>, A.M. PUSCAS<sup>1</sup>, P.N. BORZA<sup>1</sup> G. COQUERY<sup>2</sup>, "Testing and characterization of aqueous stacked supercapacitors", Buletinul Universitatii Transilvania, Brașov, 2009, Romania, ISSN 2065-2119 (Print), ISSN 2065-2127 (CD-ROM), Vol. I (50), pp. 243 – 248.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Brașov.

## 12.3. Lucrări publicate în volumele conferințelor de specialitate

- [1] P.N. BORZA<sup>1</sup>, P.A. COTFAS<sup>1</sup>, D.T. COTFAS<sup>1</sup>, M.C. CARP<sup>1</sup>, "PV Cells Test Bench System with Remote Access Through Internet", OPTIM 2012, Brașov, Romania, ISBN: 978-1-4673-1650-7, pp. 1046-1051.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Brașov, ROMANIA.

- [2] A.M. PUSCAS<sup>1,2</sup>, M.C. CARP<sup>1,2</sup>, P.N. BORZA<sup>1</sup>, R. MUSAT<sup>1,3</sup>, D. SOJREF<sup>4</sup>, "Hybrid storage systems and dynamic adapting topologies for vehicle applications", OPTIM 2012, Braşov, Romania, ISBN: 978-1-4673-1650-7, pp. 1559 – 1566.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Braşov, ROMANIA.  
<sup>2</sup> - SIEMENS Program and System Engineering of Braşov, ROMANIA.  
<sup>3</sup> - IBM Global Delivery Centre of Braşov, ROMANIA.  
<sup>4</sup> - Werkstoffe und Technologien, Transfer und Consulting of Berlin, GERMANY.
- [3] A.M. PUSCAS<sup>1,2</sup>, Radu MUSAT<sup>1,3</sup>, M.C. CARP<sup>1,2</sup>, P.N. BORZA<sup>1</sup>, G. COQUERY<sup>4</sup>, "Characterization of the Organic and Inorganic Supercapacitors", OPTIM 2012, Braşov, Romania, ISBN: 978-1-4673-1650-7, pp. 1046 – 1051.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Braşov, ROMANIA.  
<sup>2</sup> - SIEMENS Program and System Engineering of Braşov, ROMANIA.  
<sup>3</sup> - IBM Global Delivery Centre of Braşov, ROMANIA.  
<sup>4</sup> - French institute of science and technology for transport, development and networks, FRANCE.
- [4] M.C. CARP<sup>1</sup>, A.M. PUSCAS<sup>1</sup>, P.N. BORZA<sup>1</sup>, "Energy Management System and Controlling Methods for a LDH1250HP Diesel Locomotive Based on Supercapacitors", DoCEIS'11, ISBN: 978-3-642-19169-5, pp. 429 - 436.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Braşov.
- [5] A.M. PUSCAS<sup>1</sup>, M.C. CARP<sup>1</sup>, P.N. BORZA<sup>1</sup>, I. SZEKELY<sup>2</sup>, "Embedded Intelligent Structures for Energy Management in Vehicles", DoCEIS'11, ISBN: 978-3-642-19169-5, pp. 421-428.  
<sup>1</sup> - Dept. of Electronics and Computers, Transilvania University of Braşov.  
<sup>2</sup> - Acta Universitatis Sapientiae, Targu Mureş, Romania
- [6] A.M. PUSCAS<sup>1</sup>, M.C. CARP<sup>1</sup>, P.N. BORZA<sup>1</sup>, "Intelligent Control System Used For Increasing The Energy Efficiency Of The Electric Vehicles - Reduced Scale Model -", CONAT 2010, Braşov, Romania, ISBN: 978-1-4438-2972-4, pp. 93 – 100.  
<sup>1</sup> - Dept. of Electronics and Computers, TRANSILVANIA University of Braşov.
- [7] M.C. CARP<sup>1</sup>, A.M. PUSCAS<sup>1</sup>, C. KERTESZ<sup>1</sup>, M. ROMANCA<sup>1</sup>, P.N. BORZA<sup>1</sup>, "Monitoring system and intelligent control system used in the starting process of a LDH1250HP", OPTIM 2010, Braşov, Romania, ISBN: 978-973-131-080-0, pp. 551 – 556.  
<sup>1</sup> - Dept. of Electronics and Computers, TRANSILVANIA University of Braşov.
- [8] A.M. PUSCAS<sup>1</sup>, M.C. CARP<sup>1</sup>, P.N. BORZA<sup>1</sup> and G. COQUERY<sup>2</sup>, "Thermal and Voltage Testing and Characterization of Supercapacitors and Batteries", OPTIM 2010, Braşov, Romania, ISBN: 978-973-131-080-0, pp. 125 – 132.  
<sup>1</sup> - Dept. of Electronics and Computers, TRANSILVANIA University of Braşov.  
<sup>2</sup> - INRETS-LNT, Versailles, France.
- [9] V. ROCHA<sup>1,3</sup>, P.N. BORZA<sup>4</sup>, J. CORREIA<sup>1</sup>, G. GONÇALVES<sup>3</sup>, A.M. PUŞCAŞ<sup>4</sup>, R. SEROMENHO<sup>5</sup>, A. MASCIOLETTI<sup>2</sup>, A. PICANO<sup>2</sup>, S. COCORADA<sup>4</sup>, M.C. CARP<sup>4</sup>, "Wearable computing for patients with coronary diseases: Gathering efforts by comparing methods", AQTR 2010, Cluj-Napoca, Romania, ISBN: 978-1-4244-6722-8, pp. 339 – 347.  
<sup>1</sup> - INOVAMAIS.  
<sup>2</sup> - LABOR.  
<sup>3</sup> - Informatics Engineering Department, University of Porto.  
<sup>4</sup> - Dept. Of Electronics and Computers, Transilvania University of Braşov.
- [10] A.M. PUŞCAŞ, R. MUŞAT, M.C. CARP, P.N. BORZA, E. HELEREA, "Energetical Monitoring of the storage devices by using sensors networks placed inside the mobile systems", AFASES 2009, Braşov, Romania, ISBN: 978-973-8415-67-6, pp. 745-752.

- [11] A.M. PUȘCAȘ, P.N. BORZA, M.C. CARP, G. PANĂ, "Energy Efficient ECG signal acquisition channel for ambulatory patient's monitoring", International Symposium for Design and Technology of Electronic Packages, SIITME 2008, Predeal, România, ISSN: 1843-5122, pp. 212 - 216.
- [12] P.N. BORZA, A.M. PUȘCAȘ, M.C. CARP, A. STAVĂR "Patient Remote Monitoring of Biophysical and Biochemical Signals", , International Symposium for Design and Technology of Electronic Packages, SIITME 2008, Predeal, România, ISSN: 1843-5122, pp. 222 - 226.
- [13] M.C. CARP, A.M. PUȘCAȘ, P.N. BORZA, "Smart Development Platform For Embedded Systems", International Symposium for Design and Technology of Electronic Packages, SIITME 2008, Predeal, România , ISSN: 1843-5122, pp. 217 - 221.
- [14] P.N. BORZA, M.C. CARP, A.M. PUȘCAȘ, I. SZEKELY, G. NICOLAE, "Energy Management System based on supercapacitors used for starting of internal combustion engines of LDH1250 locomotives and charging their batteries", International Symposium for Design and Technology of Electronic Packages, SIITME 2008, Predeal, România, ISSN: 1843-5122, pp. 227 - 231.
- [15] A. STAVĂR, P.N. BORZA, M.C. CARP, A.M. PUȘCAȘ, "Pulse oximetry, a method of monitoring heart disease patients", International Symposium for Design and Technology of Electronic Packages, SIITME 2008, Predeal, România, ISSN: 1843-5122, pp. 232 - 236.
- [16] A. STAVĂR, M.C. CARP, M. DASCĂLU, D. TALABĂ, "A treadmill Technical Solution for the Human Walking Simulation in a Virtual Environment", International Workshop on Robotics in Alpe-Adria-Danube Region, ISBN: 978-606-521-315-9, pp. 36-43.

#### 12.4. Granturi și contracte de cercetare științifică

Programul/ Proiectul	Funcția	Perioada
Contract D2-018/14.09.2007, TRANS-SUPERCAP	Dezvoltator platforma	2007-2011
Contract D1-057/21.09.2007, BIOMED-TEL	Dezvoltator platforma	2007-2011

#### 12.5. Brevete de invenții:

- [1] P.N. BORZA. M.C. CARP, T.S. STEFAN, „Sistem de management energetic și metode de gestiune a funcționării acestuia pe vehicule echipate cu motoare cu ardere internă”, publicat în BOPI 11/2010 - Secțiunea Invenții 20. CBI A/00119/04.02.09.

#### 13. Membru în asociații profesionale și științifice:

- [1] Academia Oamenilor de Știință din România - Grupul pentru Rețele Energetice Inteligente

#### 14. Experiența acumulată în programe naționale/internaționale (specializări)

- [1] Short Term Scientific Mission within the COST 542 scientific programme on: "High Performance Energy Storage for Mobile and Stationary Applications", HPSMT, 15 – 31 March 2010, INRETS, (Satory – Versailles) France.

- [2] Short Term Scientific Mission within the COST 542 scientific programme on: "*High Performance Energy Storage for Mobile and Stationary Applications*", HPSMT, from 18.10.2009 – 8.11.2009, INRETS, (Satory – Versailles) France.
- [3] Summer School, "*e- Technologies on Renewable Energy Systems*", 29 June - 12 July 2009, organized by the RES Laboratory of T.E.I Patras, Greece.
- [4] European COoperation in the Field of Scientific and Technical Research, COST Action, MP1004: "*Hybrid Energy Storage Devices and Systems for Mobile and Stationary Applications*", Cheile Gradistei, 24-26 May 2012, Brasov, Romania.
- [5] European COoperation in the Field of Scientific and Technical Research, COST Action, COST ACTION 542, *COST Training School: "High Performance Energy Storage for Mobile and Stationary Applications"*, 20-23 May 2009, Poiana Braşov, România.
- [6] European COoperation in the Field of Scientific and Technical Research, COST Action, COST Action 542, "*High Performance Energy Storage for Mobile and Stationary Applications*", 29 – 30 October 2009, Malaga, Spain.
- [7] European COoperation in the Field of Scientific and Technical Research, „*COST ACTION 542, "High Performance Energy Storage for Mobile and Stationary Applications"*, January 2009, Glasgow, UK .
- [8] SIEMENS Technology Day 2008, *IT Sustainability "Increasing the Energy Efficiency of Shunting Locomotives"*, 13 November, Salzburg, Austria.
- [9] TIE 2012 – *Interconnection Techniques In Electronics*, Student professional contest - the XXI-th Edition, Sibiu, România, 25-28 April 2012 – (member in the technical committee).
- [10] TIE 2011 – *Interconnection Techniques In Electronics*, Student professional contest - the XX-th Edition, Bucharest, România, 13-16 April 2011 – (member in the technical committee).
- [11] TIE 2010 – *Interconnection Techniques In Electronics*, Student professional contest - the XIX-th Edition, Cluj-Napoca, România, 14-17 April 2010 – (member in the technical committee).
- [12] TIE 2009 – *Interconnection Techniques In Electronics*, Student professional contest - the XVIII-th Edition, Galati, România, 9-11 April 2009 – (member in the technical committee).

## **15. Alte mențiuni**

### **15.1. Participări la activități didactice în universități din țară și străinătate**

- [1] Cadru didactic asociat la Universitatea *TRANSILVANIA* din Braşov.

### **15.2. Organizare de evenimente științifice (conferințe, workshop-uri, etc.)**

- [1] *COST ACTION 542, COST Training School: "High Performance Energy Storage for Mobile and Stationary Applications, Poiana Braşov, România, 20-23 May 2009.*
- [2] Workshop-ul pentru proiectului: *PNII/P4 - BIOMED TEL*, Martie 2008, Braşov, România.
- [3] Workshop-ul pentru proiectului: *PNII/P4 - TRANS-SUPERCAP*, Octombrie 2008, Braşov, România.

#### 16. Premii și distincții:

- [1] 2003 - 1st place - *"The Annual Students' International Computers Contest HARD & SOFT Suceava - An Electronic On-Line Weather Station"*.
- [2] 2003 - Special Prize for High Scientific Level - Students Scientific Workshop – TRANSILVANIA University of Brașov - *"Solution for accessing over the Internet an instrument of measurement"*.
- [3] 2003 - 1st place - Students Scientific Workshop – TRANSILVANIA University of Brașov.
- [4] 2002 - 4th place - *"The Annual Students' International Computers Contest HARD & SOFT Suceava - Intelligent alarm system based on image processing"*

**Data:** 05.02.2013

(Grad didactic, Prenume, Nume)

Dr.ing. Marius Cătălin CARP

Semnătura:

