Curriculum vitae Europass

Personal Information

Name / Surname	Pletea Irinel Valentin
Nationality	romana
Date of birth	01.01.1975

Professional Experience

Period	1999 - 2003 System Engineer , Technical University " Gheorghe Asachi" of Iasi , Faculty of Electronics, Telecommunications and Information Technology 2003 - 2005 Assistant , Technical "Gheorghe Asachi" of Iasi , Faculty of Electronics, Telecommunications and Information Technology 2006 - 2013 Lecturer Technique "Gheorghe Asachi" of Iasi , Faculty of Electronics, Telecommunications and Information Technology 2013 – present Assistant Professor Technique "Gheorghe Asachi" of Iasi , Faculty of Electronics, Telecommunications and Information Technology
Occupation or position held	Assistant Professor
Main activities and responsibilities	Course: Electroacustique, Renewable energy sources, Modern high efficiency converters
Name and address of employer	Technical University " Gheorghe Asachi" of Iasi , Faculty of Electronics, Telecommunications and Information Technology

Education and Training

Period	Period 1993 -1998 Faculty of Electronics, Telecommunications and Information Technology ,
Qualification / diploma awarded	diploma awarded Engineer
	March 1998 - July 1998 was invited by the Department of Power Electronics (PE2) at the Université des Sciences et Technologique of Lille , France , in the framework of TEMPUS JEP 097 37-95 .
	2005 Ph.D. degree,
Principal subjects / occupational skills	Electroacustique (lecture + lab www.etc.tuiasi.ro/esa) Renewable energy Course Starting modern high efficiency converters (El laboratory www.etc.tuiasi.ro/esa)

Books published in this field:

1. D.Cepareanu, **I.V.Pletea**, S.Naicu, D.Posa: Sisteme de inregistrare Audio – video analogice si digitale. Institutul European, colectia Universitaria, Seria Electrotehnica. 2006. ISBN (10)973-611-398-1; ISBN(13)978-973-611-398-7.
2. **I.V.Pletea**, D.Alexa, A.Sirbu: „Noi convertoare performante pentru surse regenerabile de energie", ed. TEHNOPRES, ISBN 973-702-093-6, 2008.

Personal skills and competences

Language (s) tongue (s) **Romana**

Language (s) Foreign (s) name (s) **French , English**

Assessment	Înţelegere				Vorbire				Scriere	
European level ( )*	Listening		Speaking		Listening		Speaking		Writing	
Language	FR	A1	FR	A1	FR	A2	FR	A2	FR	A1
Language	EN	A1	EN	A1	EN	A2	EN	A2	EN	A2

(*)Common European Framework of Reference for Languages

Additional information

Member evaluator FP6 , FP7 , Photovoltaic panel
Member evaluator ANCST
Additional Reviewers: International Multi-Conference on Engineering and Technological Innovation: IMETI 2008 -2013
Reviewers Industrial Electronics Magazine
Reviewers: OPTIMIZATION OF ELECTRICAL AND ELECTRONIC EQUIPMENT OPTIM 2014

1. Book

1. **Irinel -Valentin Pletea**, D.Alexa, A.Sirbu: „Noi convertoare performante pentru surse regenerabile de energie", ed. TEHNOPRES, 2008, ISBN 973-702-093-6.
2. D.Cepareanu, **Irinel -Valentin Pletea**, S.Naicu, D.Posa: Sisteme de inregistrare Audio – video analogice si digitale. Institutul European, colectia Universitaria, Seria Electrotehnica. 2006. ISBN (10)973-611-398-1; ISBN(13)978-973-611-398-7.

2. Papers

1. **I.V. Pletea**, M. Pletea (Moisa), D. Alexa, N. Lucanu: "Simulations and analysis and operating regime as rectifier with power factor correction of Two – Quadrant Converter with RNSIC", Advances in Electrical and Computer Engineering Journal, vol.3, 2009, ISSN 1582-7445.
2. D.Alexa, A. Sirbu, **I.V. Pletea**, C. Filote and R.Chiper: "Variants of rectifiers with Near Sinusoidal Input Currents – A Comparative Analysis with the Conventional Diode Rectifier". IET Power Electronics, vol. 4, issue 6, iuly 2011, ISSN 1755-4535.
3. D.Alexa, T.C.Goras, A.Sîrbu, **I.V. Pletea**, C. Filote, F. Ionescu: „An Analysis of the Two – Quadrant Converter with RNSIC". IET Power Electronics, 2008, Vol. 1, No. 2, ISSN 1755-4535, pp. 224-234. ISSN 1755-4535.
4. Dimitrie Alexa, Adriana Sirbu, **I.V. Pletea** and Tecla Castelia Goras: "Hybrid Rectifier with Near – Sinusoidal InputCurrents". IEEE Transactions on Industrial Electronics. Volume: **59** Issue: **7** Pages: 2947-2958. ISSN 0278-0046.
5. Nicolae LUCANU, **I.V. Pletea** , Ion BOGDAN, Henri BAUDRAND: "Wave Concept Iterative Method Validation for2D Metallic Obstacles Scattering". Advances in Electrical and Computer Engineering Journal, vol.12, No.1, 2012, ISSN 1582-7445.
6. Chiper R., Alexa D., Goras T.C., **I.V. Pletea** ,Pletea I.M., Alexandrescu A.: An analysis of asymmetrical RNSIC converter with capacitors on the AC side for high and medium power (2007) *ISSCS 2007 - International Symposium on Signals, Circuits and Systems, Proceedings*, 2 , art. no. 4292781 , pp. 537-540.
7. Alexa D., Goras T.C., **I.V. Pletea**, Buzatu R., Moisa (Pletea) M., Chiper R.: "Analysis of the two-quadrant converter with rectifier with near sinusoidal input currents and capacitors connected on the AC side", International Symposium on Signal, Circuits and Systems - ISSCS 2009, Iasi, Romania, Vol.2, ISBN 978-1-4244-3784-9.
8. **I.V. Pletea**, D. Alexa, T.C.Goras, R. Chiper, A. Petrichei, C. Nedelcu and A. Alexandrescu: Operating regime as rectifier with power factor correction of Two – Quarant Converter with RNSIC. The Open Electrical & Electronic Engineering Journal Volume 1, 2007, pp.61-67, ISSN: 1874-1290.
9. Mariana PLETEA (Moisa), **I.V. Pletea**, Dimitrie ALEXA & Dan Dorin CEPAREANU: TWO – QUADRANT CONVERTER WITH RNSIC – ANALYSIS AND SIMULATIONS. International Journal of Research and Reviews in Applied Sciences. Vol. 9, Issue 1, pp.57 – 62, October 2011. ISSN: 2076-734X, EISSN: 2076-7366.
10. **Pletea, I.-V.,** Alexa, D: Sustainable electrical energy - Wind energy conversion into electrical energy with RNSIC converter. *IEEE International Symposium on Communications and Information Technologies: ISCIT 2004, vol* 2 , pp. 867-870, ISBN: 0-7803-8593-4.
11. Pletea, M., Buzatu, N.R., Serediuc, A., Nedelcu, C., **Pletea, I.V.** : Variants of rectifiers with near sinusoidal input currents. *ISSCS 2011 - International Symposium on Signals, Circuits and Systems, Proceedings* , art. no. 5978773 , pp. 519-522, ISBN**:** 978-1-61284-944-7

3. Research Contracts

Project Manager:

1. Providing power quality and reduce electromagnetic pollution of the environment through new advanced power electronic converters Contract 33371/2004 , subject 105, CNCSIS code 155 . Value 60000 RON
2. Power electronic converters with low harmonic and sinusoidal current output . CEEX ET 1450/30.03.2006 agreement . (2006-2008) CNCSIS . 110000 RON value .
3. Intelligent management system robust - adaptive nonlinear flow- rotor induction motors shareholders , SICRAMAS . Program 4 - Partnerships in priority areas , no. Allocated . 2306 , contract no. 71-065/2007 (2007-2009) . value 495.000 RON.
4. Innovative monitoring system of power quality based on wavelet transform in order to increase the energy efficiency of industrial consumers FILOLET " , Contract No: 22-137/01.10.2008 (2008-2010) . Value 320000 RON

Member:

1. New configurations of rectifying performance characterized by high efficiency and low electromagnetic pollution . Contract 33371/2004 , theme 43, CNCSIS code 753 . (year I)
2. New configurations of rectifying performance characterized by high efficiency and low electromagnetic pollution . Contract 40222/2003 , theme 1 , CNCSIS code 753 . (Year II)
3. Phase and three phase rectifiers unsolicited practically sinusoidal input currents . Contract 33479/2002 , subject 86, CNCSIS code 112 .
4. Combined harmonic filtering and reactive power compensation . Contract 33479/2002 , theme 33, CNCSIS code 380 . (Year II)
5. Combined harmonic filtering and reactive power compensation . Contract 35259/2001 , subject 30 , CNCSIS code 206 . (year)
6. Techniques wave PWM modulators constant partial - solution for modernization of electric drives in industry and transport . Contract 37089/2000 , subject 25 , CNCSIS code 962 .
7. Power converter performance for rapid charging battery box Contract 34280/1999 , subject 25 , CNCSIS code 19 .
8. Project DEVELOPMENT OF ADVANCED GENERATION IN ENERGY SUPPLY SYSTEMS 5th Framework Programme (FP5) of the EU and EU- Conference held in Dresden on 10/11 October 2000.
9. Project ' Expression of Interest'si proposal FP6 STREP Proposal ID : 019 742 (EOI - RNSIC and strep - RNSIC) for FP6 EU and has been accepted for funding in the amount of 1 million euros.
10. Contract done for SC ELECTRICAL S. A. - Distribution Branch Suceava, ' filtering system combines BENCHES Battery Charger ' .
11. Contract Industry SC TELEBIT SRL ' SMPS WITH MORE stabilized voltage ', 1771P / 09.09.2004 .

4. Awards / works awarded CNCSIS

1. D.Alexa, T.C.Goras, A.Sîrbu, **I.V. Pletea**, C. Filote, F. Ionescu: „An Analysis of the Two – Quadrant Converter with RNSIC". IET Power Electronics, 2008, Vol. 1, No. 2, ISSN 1755-4535, pp. 224-234. Anglia. *lucrare premiata CNCSIS 2008. (competitie premierea rezultatelor cercetarii)*

2. Dimitrie Alexa, Adriana Sirbu, **I.V. Pletea** and Tecla Castelia Goras: "Hybrid Rectifier with Near – Sinusoidal Input Currents". IEEE Transactions on Industrial Electronics. Volume: 59 Issue: 7 Pages: 2947-2958. ISSN 0278-0046. *lucrare premiata CNCSIS 2012. (competitie premierea rezultatelor cercetarii)*

5. Training and ongoing development of the teacher

1. Project " Specialization university teaching staff for the position of supervisor of technological practice and research " financed from the European Social Fund through the Sectoral Operational Programme Human Resources Development 2007 - 2013 , Priority : 1 Education and training in support for growth and development based knowledge , key Area of Intervention 1.3 human resources development in education and training (Code Contract: 57/1.3/S/17884) mainly aims to create practical supervisors . The project facilitated through a web platform specially created for this purpose , improving access to materials on how to achieve practice with students.
2. DidaTec Project - " School academic training and further training of teachers and trainers in the field of engineering and technical specialties ," co-financed from the European Social Fund through the Sectoral Operational Programme Human Resources Development 2007 - 2013 (Code Contract: POSDRU/87 / 1.3/S/60891) aims to improve the delivery of courses and teaching laboratories using new and effective methods of teaching. These courses have been used more e-learning platforms and software dedicated to the development of courses and laboratories.