

## Curriculum Vitae

### 1. Date personale

1. Nume:	<b>ILEA</b>
2. Prenume:	<b>NICOALE DANUT GELU</b>
3. Titlu didactic:	Profesor <b>(Selectati)</b>
4. Titlu științific:	Doctor <b>(Selectati)</b>
5. Sex:	M <b>(Selectati)</b>
6. Data nașterii:	Ziua: 29 Luna: 4 Anul: 1952
7. Adresa e-mail 1:	ilea@leda.unitbv.ro

### 2. Date despre locul de munca

8	Facultatea:	<b>INGINERIE ELECTRICA SI STIINTA CALCULATOARELOR - IESC</b>
9.	Catedra	<b>INGINERIE ELECTRICA SI FIZICA APLICATA</b>

### 3. Abilități lingvistice

	Limba
10. Limba 1:	Engleza <b>(Selectati)</b>
11. Limba 2:	Franceza <b>(Selectati)</b>
12. Limba 3:	Alta <b>(Selectati)</b>

### 4. Experiența didactică in invatamantul superior

13. perioada	funcția
1980-2011	asistent univ., sef lucrari, conferentiar univ., profesor univ.- Universitatea "Transilvania" din Brasov
14. Alte activități didactice:	
1976-1980, Cadru didactic asociat - Universitatea din Brasov 1980-1982, Profesor cumulard Liceul Industrial nr. 1-Codlea, Brasov Ianuarie - Mai,1993, Nottingham "Trent" University , U.K., - Department of Electrical and Electronic Engineering - Director de studii , domeniul Power Electronics; University of Sheffield , UK - Dept. of Electronic & Electrical Engineering. University of Plymouth, UK - Dept. of Communication & Electrical Engineering. January - June, 1994, Politecnico di Torino - Italy, Dipartimento di Ingegneria Elettrica Industriale. Domeniu: Power Electronics and Drives. Mai, 1997, Universidad Carlos III Madrid, Spain - Dept. of Electronics & Circuits. Iunie, 2000, Technische Universitat Ilmenau- Germany, 2000, IT in Electrotechnics.	

1996, 1997, 1998 Buckinghamshire College London, Uxbridge-Brunel University London, Anglia - activitate doctorala; Digital Control in Power Engineering.  
 2003 – Universidad de Vigo, Spania, Universita degli Studi di Padova, Italia: IT in Entrepreneurial Business.  
 2004 - Universidad de Valladolid, Spania, Scoala Antreprenoriala.  
 2005 – University of Cyprus, Dept.of Electrical and Computer Eng., - Universitatea Antreprenoriala, Integrarea Dezvoltarii Antreprenoriale in Ingineria Electrica.  
 2006 – Technische Universitat Darmstadt, INI Novation –Germania, Integrarea Antreprenoriala in Electronica.  
 2007 – Anglia Ruskin University, Cambridge, England, Program Erasmus, Power Electronics.  
 2007 – University of Malta – Dept. of European Integration, Valoarea Adaugata a unei Universitatii Antreprenoriale in Europa.  
 2007 - Politecnico di Torino- Ingegneria Elettrica, Prof. Franco Profumo.  
 2008 - University of Cyprus, Business Consulting.  
 Manuale universitare- 8, Monografii –1, Articole publicate - 71.

## 5. Experiența științifică

15. Experiența științifică	
<p>- Au fost realizate 34 Contracte de Cercetare stiintifica si Dezvoltare Tehnologica cu Ministerul Educatiei, Cercetarii si Tineretului, ICPE, CNCSIS, si cu agenti economici si operatori economici de stat si/sau privati;          - Echipamente de electronica de putere si automatizari proiectate și realizate:23.</p>	
16. Membru al unor Organizații Științifice Naționale	IPIMEA, 1998
17. Membru al Organizații Științifice Internaționale	<p>ICT Euro –India din 2005;          AEE – Association of Energy Engineering - /2006;          IASTED –USA /2008;          OECD–France, din 2005;          Membru IEEE, Power and Energy Society- din 2009;          Membru American Chemical Society- din 2010;          Membru Zero Building Society -USA din 2010.</p>
18. Publicații reprezentative la nivel național	<p>C.Marcian, D. Ilea.:”Sistemul de operare MS - DOS, versiunea 4.01”, Indrumar de utilizare, Editura “Duminică”, 1991, 50 pag..          D. Morley, E.B. Patterson, D. Ilea.: “A Practical Introduction to Computer Aided Design on the Apollo CAD System Using Mentor Graphics IDEA Software”, Culegere de norme, E.D.A. Studio - Laboratory Guide, “Tempus” JEP-</p>

	<p>2816, 1992, 85 pag., (lb. engleza).</p> <p>C. Marcian, D. Ilea.: “ Fox Base +/- PC, Ghid de utilizare”, Lito Universitatea “Transilvania” din Braşov, 1992, 141 pag..</p> <p>D. Ilea.: “ Power Electronics Control of Adjustable Speed Drives”, “Tempus” JEP-2816, Reprografia Universitatii “Transilvania”, 1994, 235 pages, (lb. engleză).</p> <p>C. Marinescu, D. Ilea, M. Georgescu.: ” Convertoare pentru maşina asincronă ”, Lito, Universitatea”Transilvania” din Braşov, 1995, 141 pag..</p> <p>D. Ilea: ”Proiectarea asistată de calculator – CAD în Electronica de putere” , ”Tempus” JEP - 2816, Reprografia Universitatii “Transilvania”, 1997, 171 pag..</p> <p>N. D. Ilea: “Electric Converters - Power Electronic Control of Adjustable Speed Drives ” , Editura Universităţii “Transilvania”, Braşov, ISBN 973 – 9474 – 26 – 8, 1999, 240 pag., (lb. engleza).</p> <p>N. D. Ilea, L.Cloţea: ”Proiectarea asistată de calculator – CAD în Electronica de putere”, Editura Universităţii “Transilvania”, Braşov, ISBN 973 – 9474 – 25 – X , 1999, 175 pag..</p> <p>D. N. Ilea : “Power Electronic Systems – Modeling and Control”, Editura Universităţii “Transilvania”, Braşov, ISBN 973 – 635 – 135 – 1, 2003, 300 pag., (lb. engleza).</p>
<p>19. Publicații reprezentative la nivel internațional</p>	<p>D. Ilea, M. Cernat, D. Stoia.: “A Novel Control Strategy Approach for Power Energy Conversion”. Proceedings of ‘2 nd Mediterranean Conference on Power Engineering’ , IEEE Israel – Med Power 2000, 13-15 November, Tel Aviv, Israel.</p> <p>D. Ilea, M. Cernat, D. Stoia, R. Chiorean, M. Pfeiffer. : “Designing A Novel Control Strategy Approach for Power Electronic Converters”. Proceedings, IEEE International Power Electronics Congress, Acapulco, October, 15-19, 2000, Mexico.</p> <p>A. Mailat, D. Stoia, D. Ilea: “Considerations on Vehicle Alternator Performance Improvement”, 4-th International Symposium on Advanced Electromechanics Motion Systems”, Electromotion 2001 , June 19-20, 2001 , Bologna, Italy, p.511- 514.</p> <p>N. D. Ilea: “A Novel Control Approach for Power Electronic Systems”. Med Power 2002, MED 02/214, 3rd Mediteranean</p>

	<p>Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion, November 4-6, 2002, Athens, Greece.</p> <p>V. Comnac, M. N. Cirstea, F. Moldoveanu, Dănuț N. Ilea, Radu M. Cernat.:  “Sensorless Speed and Direct Torque Control of Interior Permanent Magnet Synchronous Machine Based on Extended Kalman Filter”,  2002 International Symposium on Industrial Electronics, IEEE-ISIE2002, L’Aquila, July 8-11, 2002, L’Aquila, Italy, p.1142-1147.</p> <p>N. D. Ilea, L. Lupsa: “Modelling in d-q Axis of Transient Processes of Synchronous Machines”,  IASTED International Conference and Energy Systems, Power and Energy Systems, PES 2002, IASTED Proceedings, Palm Springs, California, USA.</p> <p>L.Lupsa, N. D. Ilea: “A Novel Approach on Modelling and Simulation of Unsteady Operation of Large Synchronous Generators Connected to the Infinite Bus System”, IASTED International Conference and Energy Systems, Transmission, Distribution and Automation, TDA 2002, IASTED Proceedings Palm Springs, California, USA.</p> <p>A. Zregh, M.N. Cirstea, A. Dinu and D. Ilea (2004): A Novel PWM Power Converter Controller Design using VHDL, Proc. of IEEE/IEE Int. Conference on Optimisation of Electrical and Electronic Equipment (OPTIM 2004), 3, 15-20, Brasov, Romania.</p> <p>N. D. Ilea, C. Mirea and I. Grecu (2004):  “Design and Implementation of an E-Learning Platform With Rich Media Support”, Proc. of IEEE/IEE Int. Conference on Optimisation of Electrical and Electronic Equipment (OPTIM 2004), 3, 15-20, Brasov, Romania.</p> <p>L. Lupsa and N.D.Ilea (2004): “ A d-q AXIS PROCESS MODEL FOR SIMULATION OF TRANSIENTS IN MAGNETICALLY SATURATED SYNCHRONOUS MACHINES”  in THE IASTED International Conference on Power and Energy Systems EuroPES, 2004 June 28-30, 2004 Rhodes, Greece, CD-Rom.</p> <p>D. Stoia, M. Antonoaie, N.D. Ilea, M. Cernat, Design of Line StartPM Motors with HighPower Factor, International Conference onPower Eng. Energy and Electrical Drives, POWERENG 2007, Setubal, Portugal, 12-14 April 2007, IEEE</p>
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D. Ilea, M. Cernat, D. Stoia, F. Ioannidou,  
Engineering-based Entrepreneurship Education,  
3rd International Conference on Interdiscipli-  
narity in Education ICIE 2007, 15-17 Marc,2007,  
Athens, Greece, ISBN 978-960-89028-4-8, ISSN  
1790-661X.

Prof. dr. – ing. Danut Ilea

#### RAPORTARE 2011

D. Stoia, M. Antonoaie, D. Ilea, M. Cernat,  
Design of Line Start Motors with High Power  
Factor, presented at the International Conference  
on Power Engineering, Energy and Electrical  
Drives, POWERENG 2007, Setubal, Spain, 12-  
14 April 2007,  
published in Proceedings of the International  
Conference on Power Engineering, Energy and  
Electrical Drives, POWERENG 2007, Setubal,  
Spain, 12-14 April 2007, published on CD-Rom,  
IEEE Catalog Number 07EX1654C, ISBN: 1-  
4244-0895-4, Library of Congress 2006939761,  
paper 186.

[ieeexplore.ieee.org/iel5/4380079/4380080/04380150.pdf](http://ieeexplore.ieee.org/iel5/4380079/4380080/04380150.pdf)

Nr. de citari: 5.

D. Stoia, D. Ilea, M. Cernat, Al.B. Dezsi, A.A.  
Jimoh,

Stability of the Line-Start Permanent Magnet  
Synchronous Machine Sensorless Drive  
presented at the 8-th IEEE Africon Conference  
2007, Windhoek, Namibia, 26-28 September 26-  
28 2007, published on CD-Rom, IEEE Catalog  
Number 07CH37876C, ISBN: 1-4244-0987-X,  
paper 639, pages 735-738

Proc. 81b IEEE Africon Conference, Windhoek,  
Namibia, 26-28 Sept. ...

[ieeexplore.ieee.org/iel5/5295237/5308064/05308177.pdf?arnumber...](http://ieeexplore.ieee.org/iel5/5295237/5308064/05308177.pdf?arnumber...)

Nr. de citari: 2.

A. Parera-Ruiz\*, M.N. Cirstea\*, Senior Member,  
IEEE, D.N. Ilea\*\*

\*Anglia Ruskin University, Cambridge, UK,

\*\*Transilvania University of Brasov, Romania,

Rapid development of an FPGA Controller for a Wind/ Photovoltaic Power System  
Industrial Electronics, 2008. ISIE 2008. IEEE International Symposium on Publication Date: June 30 2008-July 2 2008 On page(s): 2003-2008 Industrial Electronics, 2008. ISIE 2008. IEEE International Symposium on Location: Cambridge, UK, ISBN: 978-1-4244-1665-3  
Nr de citari : 14.  
This paper appears in: Industrial Electronics, 2008. ISIE 2008. IEEE International Symposium on Issue Date: June 30 2008-July 2 2008  
On page(s): 2003 - 2008  
Location: Cambridge  
Print ISBN: 978-1-4244-1665-3  
References Cited: 14  
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Holistic Modeling, Design and Optimal Digital Control of a Combined Renewable Power System  
ieeexplore.ieee.org/iel5/5609073/5635477/05636986.pdf?arnumber  
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Print ISBN: 978-1-4244-6390-9  
INSPEC Accession Number: 11653358  
Digital Object Identifier: 10.1109/ISIE.2010.5636986  
Date of Current Version: 15 November 2010  
D. Stoia, M. Cernat, A. Mailat, D. Ilea, Magnetic Energy Storage in Synchronous Lundell Alternator with Load Control, 14th International Symposium on Power Electronics, PES'07, Novi Sad, Serbia,

November 7-9, 2007, CD-Rom, ISBN 978-86-79892-065-3 ELECTRONICS, Vol. 11, No. 1-2, December 2007, edited by the Faculty of Electrical Engineering, University of Banjaluka, Serbia, YU ISSN 1450-5843  
Danut Ilea, Mihai Cernat, Dan Stoia, and Stylianos A. Papazis,  
Engineering-Based Entrepreneurship Education presented at the 3rd International Conference on Interdisciplinarity in Education ICIE 2007, 15-17 March 2007, Athens, Greece  
published in Proceedings of the 3rd International Conference on Interdisciplinarity in Education ICIE 2007, March 15-17, 2007, Athens, Greece, ISBN 978-960-89028-4-8, ISSN 1790-661X, pp. 415-425.

D. Ilea, M. Cernat, D. Stoia, C. Zoller,  
Engineering-based Entrepreneurship Education, presented at the International Conference on Electro-mechanics, ICEM Petroșani Second Edition, May 24-26 2007  
published in Annals of the University of Petrosani, Electrical Engineering, Vol. 8 (XXXV), Universitas Publishing House Petrosani, Romania, 2007, ISSN 1454-8518, pp. 220-225.

2009

D. Stoia, M. Cernat, A. Mailat, and D. Ilea,  
An Electromagnetic Model for Lundell Alternator with Switched-Model Rectifier System,  
accepted at the Fourth International Conference on Control Sciences ICCS-IV, January 26-30, 2009, “V.A. Trapeznikov” Institute of Control Sciences Russian Academy of Sciences (RAS), Moscow, Russia, The Fourth International Conference on Control Sciences (ICCS-IV) will

D. Stoia, M. Cernat, D. Ilea,  
Educational Bench of Line-Start Permanent Magnet Synchronous Motors, Part I: The Operating Point of the Permanent Magnet  
presented at the 4th International Conference on Interdisciplinarity in Education ICIE'09, May 21-22 2009, Vilnius, Lithuania

D. Stoia, M. Cernat, D. Ilea, Educational Bench

	<p>of Line-Start Permanent Magnet Synchronous Motors, Part II: The synchronous operation presented at the 4th International Conference on Interdisciplinarity in Education ICIE'09, May 21-22 2009, Vilnius, Lithuania</p> <p>D. Stoia, M. Cernat, D. Ilea, Educational Bench of Line-Start Permanent Magnet Synchronous Motors, Part III: The asynchronous operation presented at the 4th International Conference on Interdisciplinarity in Education ICIE'09, May 21-22 2009, Vilnius, Lithuania</p> <p>D. Ilea, M. Cernat, D. Stoia, F. Ioannidou, Entrepreneurial University – Adding Value To Entrepreneurship Education In Electrical Engineering presented at the 4th International Conference on Interdisciplinarity in Education ICIE'09, May 21-22 2009, Vilnius, Lithuania</p>
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## 6. Experiența managerială

20. perioada	funcția
1991-1995	Proiect european: Contract TEMPUS JEP 2816 - POWER CONVERTERS ELECTRICAL MACHINES + EXTENSIE - DIRECTOR EXECUTIV
1996-1998	PHARE Programme “Tempus”, Contract N0 CME - 02109 – 96, “University / Enterprise – Careers Office Network”, 1996-1998 - COORDONATOR
2000-2003	Leonardo Da Vinci Programme – Pilot Project “Entrepreneurial Spirit”, No., EL/2000/B/P/114153, 2000 – 2003 - PARTENER
2001-2004	Leonardo Da Vinci Programme – Pilot Project “Migratools project” Skill development and orientation instruments for the work induction of migrants" I/01/B/F/PP-120472, 2001-2004- PARTENER
2003-2005	Leonardo Da Vinci Programme – Pilot Project “INICI@ Project “Technical Training and Accreditation System for Entrepreneurs” , E/02/B/F/PP – 115. 849, 2003 - 2005, - PARTENER
	Socrates (ERASMUS 3) Thematic Network Number 104934-



2002-2004	CP-1-2002-1-PT-TN Project: ISEKI-Food - Integrating Safety and Environmental Knowledge Into Food Studies towards European Sustainable Development, 2002-2004, PARTENER
2005-2007	Leonardo Da Vinci Programme – Pilot Project “SOFE IDEA” “Integrated Development of Entrepreneurial Achievers” LDV IDEA CONTRACT CY/05/B/P/PP-501/1892/23.02.2006 PARTENER
2009-2011	Analiza, detectia si masurarea caderilor de tensiune in retelele Electrice”. Nr. 15419/21. 10. 2009 C 697 / 16. 11. 2009 – S.C. FDEE Electrica Distributie Transilvania sud S. A. / ROMANIA RESPONSABIL CONTRACT
2010	Analiza, proiectarea si dezvoltarea unui sistem integrat de inalta eficienta energetica de cogenerare si trigenerare a energiei in cladiri industriale cu luarea in considerare a tehnologiilor de stocare. Beneficiar ICCO Electric srl Brasov. 481/14.01 2010 - Univ. Transilvania RESPONSABIL CONTRACT

## 7. Informații suplimentare

Director/Manager - responsabil de contracte de integrare europeana:

Contracte ale C.E.E., ”Tempus”: 2. Contracte Leonardo Da Vinci : 5.

Contracte Socrates – Research: 3. Chairman IEEE, 2002, German Chapter.

Alte competențe:

Expert evaluator pentru lucrari stintifice in domeniul „Electronica de putere” in cadrul conferintelor internationale cotate ISI Thompson - APEC, SUA, 2007, 2009.

08 Septembrie 2011

**data**