CURRICULUM VITAE

Personal data:

Name:	***Nicolae-Lucian MIHET (*MIHET – POPA)**
Present address:	300051 Timisoara - Romania,V. Lucaciu 7, sc. B, ap. 8
	Contact phone: +40 757021899
	E-mail: lucian.mihet@upt.ro; mihetz@yahoo.com
Place and birth date:	Brad - Romania, 9th of August 1969.
Marital status:	Married, 1 child.
Profession:	Electrical Engineer.
Foreign Languages:	English written and spoken.

Studies:

- December 2003 – Ph D degree in Electrical Engineering at the "*Politehnica*" University of Timisoara – Romania (http://www.upt.ro/en/), Dep. of Electric Machines and Drives, with the Ph. D. thesis entitled: "***Wind turbines using induction generators connected to the grid***";
- 2000 – I graduated a Master Course in Electric Drives and Power Electronics (ED & PE), also at the Faculty of Electrical Engineering and Power Systems, Dept. of Electrical Machines and Drives, Timisoara;
- 1999 – Bachelor Degree in Electrical Engineering at POLITEHNICA University of Timisoara, Faculty of Electrical Engineering and Power Systems with the thesis entitled "Master – Follower Systems" using ACS 600 – Frequency Converters (ABB Drives).
    - ***Teaching (Pedagogical) Modules***: 2 modules of Pedagogy, Psychology, Sociology and Practical Pedagogy (56 hours of teaching at different High Schools)

Research and Teaching Activity:

- Since September 2008: ***Associate Professor*** at the University POLITEHNICA of Timisoara, Faculty of Electrical Engineering and Power Systems, Dept. of Electrical Engineering (http://www.et.upt.ro/index.php?lang=en), Timisoara-Romania;
    - I am teaching 3 courses: ***Modelling and Simulations using MATLAB – Simulink with applications in Electrical Engineering***, ***Signal processing techniques*** and the Master Course: ***Embedded Systems for Automotive***;
    - I have been working in 4 international projects being responsible with modelling, simulations and control implementation of wind turbine generators in a micro-grid.
- March 2011-February 2014: ***Scientist/Researcher*** at Danish Technical University (DTU)-Electrical Engineering Department, Roskilde-Denmark (http://www.elektro.dtu.dk/english);
    - I have worked in ***4 international projects (as project responsible and work package leader)*** covering area of modelling, simulation, control and testing of DER components

in distribution networks (smart grids), including PV, EV, HP and BESS (http://www.powerlab.dk).
    - I was also ***teaching the master course*** 31783: Wind Power Integration in Power Systems.
- October 2006-September 2008: ***Lecturer Professor*** at the Faculty of Electrical Engineering; **I was teaching 2 courses: Modelling and Simulations using MATLAB & Simulink and Energy Conversion Systems** (***Power Systems*** & ***Power Quality***);
    - I was involved in 3 research national projects (Funded by Romanian Research and Education Ministry) related to wind turbine applications.
- October 2004-September 2006: ***Assistant Professor***; at the Faculty of Electrical Engineering;
    - I was supervising the laboratories of electric drives & power electronics, lighting, modelling and simulation using MATLAB-Simulink software package and design of high voltage electrical transformers.
    - I was also involved in 2 research national projects.
- May 2004 - August 2004: I have worked as a ***Guest Researcher*** (PostDoc) at Siegen University - Germany (http://www.lea.fb12.uni-siegen.de/).
    - In this period I have been involved in two research projects entitled "Fault detection and diagnostics in induction machine drives" and "Renewable energy sources with variable-speed systems". I developed an experimental condition monitoring system in order to detect and diagnose electrical faults.
- December 1999 – December 2003: **PhD student** at Faculty of Electrical Engineering and Power Systems, Dep. Electrical Machines and Drives at POLITEHNICA University. Also, I was responsible for supervising Electrical Machines and Drives and Lighting labs and design of fluorescent lamp drivers (student's semester projects and labs).
    - October 2001 – December 2002: I worked as ***Guest Researcher at Aalborg University***, Denmark (www.iet.aau.dk) on a project entitled "*Condition Monitoring of Wind Generators*" (*in collaboration with VESTAS*). The objective of this project was to develop and test methods of condition monitoring, suitable adapted for implementation in wind generator systems. I developed an experimental system that has been a model of variable-speed wind generator systems, improved with an advanced condition monitoring system. Studies have also included design and commissioning of a measuring system comprising Signal Conditioning card, AD card and transducers for current, voltage, shaft speed and temperature;
    - October 2000 – January 2001: ***Guest Researcher at Aalborg University***, Denmark on a project entitled "***Power Plant Characteristics of Wind Farms***" (***in collaboration with RISØ-Danish National Research Laboratory***). The wind generator models were developed in both dedicated power systems simulation tools, **MATLAB-Simulink** and **DIgSILENT PowerFactory**.

January 1990 – December 1999: electromechanical technician at an automotive company (SC SATIM SA) in Timisoara-Romania.

Main research areas:

- Modelling, simulations and testing DER components (including BESS) in Power Systems (Smart Grids);
- Integration of DG and renewable energy sources including PV, EV and BESS;
- Modelling, simulation and control of wind turbines/wind farms
- Modelling, simulation, control and testing of the electrical drives and power electronic systems;
- Detection and diagnosis of faults in induction machine drives and wind turbine generators.
- Filter design techniques, Harmonic compensation;

Computer experience:

- MS-Word, MS-Excel, MS-Power Point, FoxPro;
- **MATLAB & Simulink**, **DIgSILENT PowerFactory**, Saber, Mathcad, Orcad;
- C, C^{++}, Java, P-Spice, Pscad (beginner), dSPICE;

Scientific activity - papers:

- **More than 75 papers** published in international and national journals and conference proceedings;
  - The paper published by the IEEE IAS Transactions on Industry Applications in 2004 entitled "***Wind Turbine Generator Modeling and Simulation Where Rotational Speed is the Controlled Variable***", January / February 2004, Vol. 40, No. 1, received the 2005 ***Second Prize Paper Award***;
- **11 International grants/projects** – 6 in Denmark (2 at Aalborg University and 4 at RISØ DTU), 1 in Germany (at Siegen University) and 4 at POLITEHNICA University of Timisoara-Romania;
- **6 National/Romanian grants**;
- **10 books**: "*Electrical Energy Conversion and their applications*", September 2005, Timisoara-Romania, ISBN 973-625-254-X, "***Modelling and Simulations using MATLAB & Simulink with applications in Electrical Engineering***", "***Wind turbines using induction generators connected to the grid***", 2007; "***Simulation Algorithms developed in MATLAB-Simulink"***, 2010; ***Wind Farm***, Book Chapter, ISBN: 978-953-307-156-5,InTech 2011(open access).
- I was **supervisor** of more than 50 students & master students and co-supervisor of 5 PhD students working to finish their diploma and dissertation theses;

Habilitation Thesis, submitted in June 2014**,** with the title**: "Development of Simulation Tools for Distributed Energy Conversion Systems toward Smart Grids",** 220 pg**.**

Collaboration with the International Universities: Technical University of Denmark (DTU), Aalborg University-Denmark, Siegen University-Germany, University of Ottawa-Canada, University of Cairo-Egypt, University of Genova-Italy, Royal Institute of Technology KTH-Sweden, Institute for Energy Economics EWI-Germany, Eindhoven University of Technology TUE-Netherland;

Collaboration with industry: ABB, Danfoss Solar Inverters-Denmark, Dansk Energi, DONG Energy (DK), SEAS-NVE and Ostkraft (two of the largest Danish DSO and TSO Companies), EnergiMidt A/S (DK) and Energynautics GmbH-Germany;

Two project proposals for HORIZON 2020, submitted in 28 of August 2014 as Project Manager:

1) "***Optimization of an Intelligent and Active Energy Management System developed for Green Vehicles***", Call: Green Vehicles-GV.2-2014, 9 partners (Fraunhofer IWES, DERlab & HELLA (Germany), DTU(Dk), CERTH & TEI Piraeus (Greece), KAD3 & PGFBS (Italy), UPT (Romania)) from 5 EU countries;
2) "***Smart Low-Power Lighting Systems for Viaducts and Tunnels***", Call: MG-8.1 B-2014, with 7 partners from 5 EU countries

Timisoara Signature:

15 September 2014

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Summary of publication and grants

- **75 articles** published in International and National Journals and Conference Proceedings (**15 papers published in international journals**-***6 of them published in ISI Journals***- indexed ISI Web of Knowledge and 9 indexed INSPEC/Scopus/IEEE Explore; 18 papers published in national journals (belong to Romanian Universities); 45 papers published in Proceedings of National and International Conferences, 28 indexed ISI Thomson and 47 IEEE Explore/Scopus/Inspec, Google Scholar); 60 times citing articles in Web of Knowledge, 150 in Scopus database and 340 in Google Scholar.
- *4 articles under review – 1 at IEEE Transactions on Smart Grid, 1 at Transactions on Industrial Informatics and 2 at ELSEVIER Journals (Journal of Process Control and Energy Conversion and Management) and 2 papers submitted to IEEE Conferences;*
- **11 international research grants/projects** (2 at Aalborg University-Denmark; 1 at Siegen University-Germany; 4 at POLITEHNICA University of Timisoara-Romania and 4 at RISØ DTU (FP7 project – Distributed Energy Resources Research Infrastructure/DERri (www.der-ri.net); EU project- Smart Modelling of Optimal Integration of High Penetration of PV/Smooth PV (http://www.smooth-pv.info/); two internal projects financed by Danish Energy Agency: Distribution System Planning for Smart Grids/SmartPlan-ForskEL 10680 and Application of smart grid in PV power systems/PVNET.dk (http://orbit.dtu.dk/en/projects/application-of-smart-grid-in-photovoltaic-power-systems(6ed2b04a-b959-4fc2-ace9-ebecfe2e523d).html)-ForskEL 10698);
- **6 national research grants** at POLITEHNICA University of Timisoara-Romania (5 regarding Renewable Energy Conversion Applicantions and one related to electrical machines and drives), financed by Romanian Research and Education Institute;
- **8 books**: 1 monography written in English about Wind Turbine Generator Systems, 4 books about Modelling and Simulation in MATLAB & Simulink with applications in electrical engineering and 1 book about wind energy conversion systems and their applications;
- **2 chapters in a book (**one of them about modeling, simulation and control of a wind farm & another one about development of tools for DER components with battery storage systems in a distribution network.
- **Reviewer** of the ELSEVIER Journals (Energy Conversion and Management & IET) and IEEE PES Transactions on Power Systems and for International Conferences: ELECTROMOTION 2003-Marrakech-Morocco, International Electric Machines and Drives Conference (IEMDC 2005)-San Antonio/Texas, Electrical Power Conference-EPEC, Montreal-Canada 2007, 2009 and 2010, IEEE I2MTC-International instrumentation & measurement technology conference, 2008, and 2012, Vancouver Island-Canada and Graz-Austria, IEEE-DELPHI 2010, New Zeeland; IEEE ICEM Conf. 2010 and 2012, IEEE PES (PowerTech &ISGT'13)-Grenoble & Copenhagen.

The list of Research Grants/Projects

International Projects in which I was Responsible/Work Packages Leader

[1] "Distributed Energy Resources Research Infrastructures-DERri", Seventh Framework Programme-FP7, EU Project No. 228449, 2011-2012 (Project Responsible); (www.der-ri.net). "Distributed Energy Resources Research Infrastructures-DERri", Seventh Framework Programme-FP7, EU Project No. 228449, 2011-2012; (www.der-ri.net). 16 Partners from 12 countries:: RSE(Italy), AIT(Austria), CEA-INES (Germany), CRES(Gr), EDF, IWES(Germany), TECNALIA(Sp), KEMA(Nederland), NTUA-ICCS(Gr), TU Lodz(Pl), TUS-RDS(Bg), VTT(Fi), USTRAT(UK), UNIMAN(UK), **Amount 180.000 EUR**, ***Beneficiary DTU(Danish Technical University)***.

[2] "Smart Modelling of Optimal Integration of High Penetration of PV-Smooth PV", PV ERA NET - EU Project (http://www.smooth-pv.info/), 2011-2013 (Internal report 85 pg.), (**WP10 and WP11 Responsible/Leader)**;

"Smart Modelling of Optimal Integration of High Penetration of PV-Smooth PV", (http://www.smooth-pv.info/), PV ERA NET - EU International Project, 2011-2013. Beneficiary Riso DTU (Technical University of Denmark); ***Amount: 1.101.000 EUR (278.000 EUR allocated to Riso DTU***). 5 Partners from 4 countries: Energynautics GmbH (project leader) & EWi Institute-Germany, DTU-Denmark, KTH-Sweden, TUE Eindhoven University- Holland;

[3] "Distribution System Planning for Smart Grids-Smart Plan", ForskEL ID no. 10680, 2012-2013 (2 Internal reports), (**WP3 and WP4 Responsible/Leader**).

"Distribution System Planning for Smart Grids-Smart Plan", ForskEL ID no. 10680, 2012-2013,. Grant/project financed by Danish Energy Agency (Energynet.dk) & Danish Technical University-DTU. ***Amount: 3.483.000 Dkk (465.000 EUR***). Partners: DTU(Project leader-Dk), SEAS-NVE(Danish DSO Company-Dk), DanskEnergi(Danish TSO Company-Dk);

[4] "Application of smart grid in photovoltaic power systems-PVNET.dk", ForskEL Project ID 55802, 2013-2014 (**WP2 Responsible/Leader**); (http://orbit.dtu.dk/en/projects/application-of-smart-grid-in-photovoltaic-power-systems(6ed2b04a-b959-4fc2-ace9-ebecfe2e523d).html)

"Application of smart grid in photovoltaic power systems-PVNET.dk"**,** ForskEL Project ID 55802, 2012-2014**;** The project was sponsored by Danish Energy Agency -Energinet.dk and Danish Technical University-DTU, under the Electrical Energy Research Program (ForskEL, grant number 55802). ***Amount: 9.849.000 Dkk (1.320.000 EUR)***, Partners: DTU(Project leader), Danfoss Solar Inverters(Dk), EnergiMidt A/S, Ostkraft(Dk), (http://orbit.dtu.dk/en/projects/application-of-smart-grid-in-photovoltaic-power-systems;

A. International research grants/projects (Member)

[1] ***"Simulation of interaction between wind farm and power system"***, ***Grant of Riso National Laboratory & Institute of Energy Technology, Aalborg University, Denmark - Riso-R-1205,*** Institute of Energy Technology, Aalborg University, Aalborg-Denmark, October 2000-January 2001. (Member).

[2] ***"Condition Monitoring of Wind Generators"***, Institute of Energy Technology, Aalborg University, Aalborg-Denmark, October 2001-December 2002. **Grant of Risø National Laboratory & Institute of Energy Technology, Aalborg University-Denmark - J 51171/00-0021** (Member).

[3] **"**Condition Monitoring of Electrical Drive Systems", Postdoc grant of the „Hagen Tschoeltsch-Stiftung"- Universitat Siegen-Germany, Department of Electrical Drives - Siegen University, Germany, (May 2004-August 2004; Member.).

[4] "Improvement of the structures and efficiency of small horizontal axis wind generators with non-regulated blades", RO-018, 2009-2010; http://www.aut.upt.ro/wind-energy/rezumat.html.

Improvement of the structures and efficiency of small horizontal axis wind generators with non regulated blades, POS_CCE-SEE-RO 018. Beneficiary UPT/Institutul de cercetări pentru energii regenerabile, Contract nr.13/01.03.2009 (***646 034 EUR***);

B. Grants of Romanian Ministry of Research and Education (*CNCSIS*)

1. Cod CNCSIS **D 117/1998, no. 42**, beneficiary: Master &PhD students of UPT, title: „Electric Drives and Power Electronics - EDPE" (member);
2. Cod CNCSIS **A 628/2005**, **no. 26** – ***„New research regarding novel topologies of energy conversion systems using induction generators"*** (member).
3. Cod CNCSIS **628/2006**, no**. 29**, ***„New research regarding novel topologies of energy conversion systems using induction generators"*** (member).
4. Cod CNCSIS **372, Tip A-2007, no. 46GR/11.05.2007**: title: ***"Researches regarding the control of new wind aggregates structures, with non-regulated blades and permanent magnet synchronous generator"***, (member).
5. Cod CNCSIS **372, Tip A-2008, no. 98GR / 11.06.2008**, , title: ***"Researches regarding the control of new wind aggregates structures, with non-regulated blades and permanent magnet synchronous generator"***, (member).

List of books

[1] **Lucian Mihet-Popa** and Dan Nicoara, „Energy conversion systems and their applications" (in Romanian) – 85 pg.; Editor POLITEHNICA University, 2005, ISBN: 973-625-254-X.

[2] **Lucian Mihet-Popa, „Modelling and Simulations using MATLAB & Simulink with applications in electrical engineering", (**in Romanian-*326 pg.***), Editor POLITEHNICA University of Timisoara,** February 2007, ISBN: 978-973-625-439-0**.**

[3] Lucian Mihet-Popa, "Wind Turbines using Induction Generators connected to the grid", (in English) - *310 pg.*), POLITEHNICA University of Timisoara, November 2007, ISBN 978-973-625-533-5.

[4] **Lucian Mihet-Popa, „Simulation Algorithms developed in MATLAB & Simulink", (**in Romanian-*456 pg.***), Editor POLITEHNICA University of Timisoara,** 2010, ISBN 978-973-625-439-0**.**

[5] **Lucian Mihet-Popa & Codruța-Mihaela ANCUȚI, „Applications in Electrical Engineering using MATLAB & Simulink", (**in Romanian-*126 pg.***), Editor POLITEHNICA University of Timisoara,** February 2014, ISBN: 978-606-554-829-9**.**

[6] **Lucian Mihet-Popa, „Modelling and Simulations using MATLAB & Simulink with applications in electrical engineering-Second Edition", (**in Romanian-*408 pg.***), Editor POLITEHNICA University of Timisoara,** May 2014, ISBN: 978-606-554-823-7**.**

Chapters in a book

[1] Lucian MIHET-POPA, „*Modeling and simulation of a 12 MW wind farm"*,, Book Chapter, ISBN: 978-953-307-156-5, InTech 2011, ***indexed in IET Scopus, Google Scholar*** (the chapter has reached 5000 downloads); http://www.intechopen.com/authorstats/index.

[2] Lucian MIHET-POPA and V. Groza, „***Control strategies of DER components using energy storage systems and actively controlled loads***", ISBN: 978-953-51-4110-5, InTech 2014.

Habilitation Thesis

"Development of Simulation Tools for Distributed Energy Conversion Systems toward Smart Grids", June 2014, 220 pg**.**

List of teaching experience

- Since September 2008: ***Associate Professor*** at the University POLITEHNICA of Timisoara, Faculty of Electrical Engineering and Power Systems, Department of Electrical Engineering (http://www.et.upt.ro/index.php?lang=en), Timisoara-Romania;
    - **I am teaching 3 courses**: ***Modelling and Simulations using MATLAB – Simulink with applications in Electrical Engineering***, ***Signal processing techniques*** and the Master Course: ***Embedded Systems for Automotive***; (14 weeks courses with 2 hours lectures and 2 hours of seminars/projects and/or labs);

- March 2011-February 2014: ***Research Scientist*** at Danish Technical University (DTU)-Electrical Engineering Department, Roskilde-Denmark (http://www.elektro.dtu.dk/english);
    - **I was teaching the master course** 31783: ***Wind Power Integration in Power Systems*** (13 weeks course of 5 ECT).

- October 2006-September 2008: ***Lecturer Professor*** at the Faculty of Electrical Engineering;
    - **I was teaching 2 courses: Modelling and Simulations using MATLAB & Simulink and Energy Conversion Systems** (***Power Systems*** & ***Power Quality***);

- October 2004-September 2006: ***Assistant Professor***; at the Faculty of Electrical Engineering;
    - **I was supervising the laboratories** of Electric Drives & Power Electronics, Lighting, Modelling and simulation using MATLAB-Simulink software package and Design of high voltage electrical transformers.

- December 1999 – December 2003: ***PhD student*** at Faculty of Electrical Engineering and Power Systems, Dept. Electrical Machines and Drives at POLITEHNICA University;
    - **I was also responsible for supervising** Electrical Machines and Drives and Lighting labs and Design of fluorescent lamp drivers (student's semester project).

- ***Teaching (Pedagogical) Modules***: 2 modules of Pedagogy (28 hours each), Psychology (28 hours), Sociology (28 hours) and Practical Pedagogy (56 hours of teaching at different High Schools)

List of papers

(2002):

[1] **Lucian Mihet-Popa**, F. Blaabjerg and I. Boldea, "*Simulation of Wind Generator Systems for the Power Grid*", Record of IEEE – the 8th International Conference on Optimisation of Electrical and Electronic Equipment, OPTIM 2002, Poiana Brasov-Romania, 16-18 May, 2002, Vol. 2, pp. 423-428 (**SCOPUS, IEEE Explore, Google Scholar**).

(2003):

[2] **Lucian Mihet-Popa**, Birgitte Bak-Jensen, Ewen Ritchie and Ion Boldea, "*Condition Monitoring of Wind Generators*", Record of IEEE-IAS 38th Annual Meeting, Salt Lake City-USA, 2003, 12-16 October, Vol. 3, pp. 1839-1846, ISBN: 0-7803-7883-0, ***Accession Number: WOS:7798516*** **(ISI Proceedings, INSPEC, IEEE Explore),** ***5 Citations in*** **ISI Web of Knowledge, more than 70 citations in Google Scholar**.

[3] **Lucian Mihet-Popa**, Birgitte Bak-Jensen, Ewen Ritchie and Ion Boldea, "*Current Signature Analysis to Diagnose Incipient Faults in Wind Generator Systems*", ELECTROMOTION 2003, Marrakech-Morocco, 26-28 November, Vol. 2, pp. 647-652 (**INSPEC, Engineering Village-Compendex, IEEE Explore, GEOBASE**).

(2004):

[4] Lucian Mihet-Popa, F. Blaabjerg and I. Boldea, "*Wind Turbine Generator Modeling and Simulation where Rotational Speed is the Controlled Variable*", IEEE-IAS Transactions on Industry Applications, January / February 2004, Vol. 40, No. 1, pp. 3-10, ISSN: 0093-9994, ***Accesion number:WOS: 000189128300001***, (**ISI Journal - ISI Web of Knowledge, Impact Factor *2.578*, *50 Citations in* ISI Web of Knowledge, 145 in Google Scholar)**.

[5] **Lucian Mihet-Popa** and Ion Boldea, "*Variable speed wind turbines using induction generator connected to the grid: digital simulation versus test results*", IEEE – the 9th International Conference on Optimization of Electrical and Electronic Equipment, OPTIM 2004, May 20-21, Poiana Braşov, Vol. 2, pp. 286-294, ***WOS: 000255388800047*** (**ISI Proceedings, ISI Web of Knowledge**);

[6] **Lucian Mihet-Popa**, Ion Boldea and Ewen Ritchie, "*Performance of wind turbine induction generators with self-regulated passive elements in the rotor*", IEEE – the 9th International Conference on Optimisation of Electrical and Electronic Equipment, OPTIM 2004, May 20-21, Poiana Braşov, Vol. 2, pp. 295-303, ***WOS: 000255388800048*** (**ISI Proceedings, ISI Web of Knowledge**);

[7] **Lucian Mihet-Popa, "***Variable Speed Wind Turbines using Cage Rotor Induction Generators Connected to the Grid***",** Proceedings of the 12th Romanian National Conference of Electrical Drives (CNAE), Cluj-Napoca, September 23rd-25th, 2004, Cluj-Napoca, pp. 261-266 (**CNCSIS**);

[8] **Lucian Mihet-Popa** and Ion Boldea**, "***A Laboratory System for Comprehensive Investigation of Wind Generators***",** Paper published in Polish Journal – Przeglad Elektrotechniczny (SEP), R 80 Vol. 2004, No. 3, pp. 200-203, PL ISSN 0033-2097 (**Scopus, Google Scholar**).

[9] **Lucian Mihet-Popa, "***A comprehensive Laboratory System for Monitoring and Detection of Wind Generators***",** Proceedings of the 12th Romanian National Conference of Electrical Drives (CNAE), Cluj-Napoca, September 23rd-25th, 2004, pp. 271-276 (**CNCSIS-B+**);

(2005):

[10] **L. Mihet-Popa** and J.M. Pacas, "*Failure Detection in Converter Fed Induction Machines under Different Operation Conditions*", Proceedings of International Electric Machines and Drives Conference (IEMDC), San Antonio-Texas, May 15-18, 2005, Vol. 3, pp. 967-974, IEEE Cat. No. 05EX1023C, (**Scopus, IEEE Explore, Google Scholar**);

[11] **L. Mihet-Popa** and J.M. Pacas, „*Active stall constant speed wind turbine during transient grid fault events and sudden changes in wind speed*", Proceedings of International Exhibition & Conference for Power Electronics Inteligent Motion Power Quality, 26th International PCIM Conference, Nuremberg, 7-9 June, 2005, pp. 646-651 (**British Library, Google Scholar**);

[12] **Lucian Mihet-Popa,** „*Variable speed electric generators for the distributed power systems of the future?*" – ELS 2005, International Symposium on unconventional electrical machines, Suceava, 22-23 September, pp. 152-158 (**Google Scholar**, **CNCSIS-B**);

[13] **Lucian Mihet-Popa,** „*Control and performance of a Doubly-Fed Induction Machine for Wind Turbine Systems*" – ELS 2005, International Symposium on unconventional electrical machines, Suceava, 22-23 September, pp. 158-164 (**Google Scholar, CNCSIS-B**);

(2006):

[14] **Lucian Mihet-Popa,** „*Current-signature analysis in converter-fed induction machines under different operation conditions*", ELECTROMOTION, International Scientific Quarterly, ISSN 1223-057X, An international journal devoted to research, development, design and applications of electromechanical energy converters, actuators and transducers, Cluj-Napoca, Romania, May 2006, second issue (**INSPEC, Engineering Village, IEEE Explore**).

[15] **Lucian Mihet-Popa** and Ion Boldea, „*Dynamics of control strategies for wind turbine applications*", the 10th International Conference on Optimisation of Electrical and Electronic Equipment, OPTIM 2006, May 18-19, Poiana Brasov, Vol. 2, pp. 199-206, ***WOS: 000256418400033*** (**ISI Proceedings, ISI Web of Knowledge**).

[16] **Lucian Mihet-Popa,** „*Negative sequence method to detect incipient faults in variable-speed wind generators systems*", Proceedings of the 13rd Romanian National Conference of Electrical Drives (CNAE), Ploiesti, September 23rd-25th, 2006, pp. 137-146; ISSN 1224-8495 (**CNCSIS-B**).

[17] **Lucian Mihet-Popa,** „*Estimation of the wind generator systems efficiency*", Proceedings of the 13rd Romanian National Conference on Electrical Drives (CNAE 2006), Ploiesti, September 23rd-25th, 2006, pp. 147-154 ; ISSN 1224-8495 (**CNCSIS-B**).

[18] **Lucian Mihet-Popa** and Ion Boldea, "*Variable speed wind turbines using induction generator connected to the grid*", Journal of Electrical Engineering -www.jee.ro, Vol. 2, July 2006, ISSN 1582-4594 (**Inspec, SCOPUS**);

(2007):

[19] N. Budisan, I. Filip, I. Szeidert and **Lucian Mihet-Popa**, „*Considerations regarding the induction generator's self-excitation within energy power stations*", Proceedings of the 4th International Symposium on Applied Computational Intelligence and Informatics-SACI 2007, Timisoara-Romania, May 16-18, pp. 257-262, 2007, ISBN: 1-4244-1234-X, ***WOS: 000248622500045*** (**ISI Proceedings - ISI Web of Knowledge**).

[20] **Lucian Mihet-Popa**, O. Prostean and I. Szeidert, „*A comprehensive laboratory system for monitoring and detection of electrical drives systems*", Proceedings of the 8th International Conference on Applied Electromagnetics-PES 2007, Nis-Serbia, September 3-5, 2007, ISBN 978-86-85195-43-8.

[21] **Lucian Mihet-Popa**, I. Szeidert and Cristian Vasar, „*2 MW Active Stall Controlled Wind Turbines Versus Pitch Controlled Wind Turbines*", ELS 2007, International Symposium on Electrical Engineering and Energy Converters, Suceava – Romania, 27-28 September, pp. 121-126, ISBN 978-973-666-259-1 (**CNCSIS-B**).

[22] **Lucian Mihet-Popa**, G. Prostean and I. Szeidert, „*The comparison between annual energy loss distribution for two variable speed wind turbine concepts of 3 MW*", ELS 2007, International Symposium on Electrical Engineering and Energy Converters, Suceava – Romania, 27-28 September, pp. 115-120, ISBN 978-973-666-259-1 (**CNCSIS-B**).

[23] **Lucian Mihet-Popa**, O. Prostean, I. Szeidert, I. Filip, C. Vasar, "*Fault Detection Methods for Frequency Converters Fed Induction Machines*", 12th IEEE Conference on Emerging Technologies and Factory Automation-ETFA 2007, September 25-28, Patras-Greece, pp. 161-168, IEEE Catalog number: 07TH8932C, ISBN: 1-6244-0826-1, ***Accesion number: WOS: 000254117100022*** (**ISI-Proceedings, ISI Web of Knowledge**).

[24] **Lucian Mihet-Popa**, Dan Nicoara, "*Sisteme neconvenţionale de conversie a energiei-Dezvoltare-Tendinţe actuale*", BULETINUL AGIR 2007-Energii alternative, Nr. 3, pp. 2-9, ISSN 1224-7928; (**CNCSIS- B+**).

[25] **Lucian Mihet-Popa**, Dan Nicoara, "*Evaluarea pierderilor într-un sistem de conversie a energiei eoliene cu viteză variabilă*", BULETINUL AGIR 2007-Energii alternative, Nr. 3, pp. 58-62, ISSN 1224-7928; (**CNCSIS- B+**).

[26] **Lucian Mihet-Popa**, Dan Nicoara, "*Principalele configuraţii ale sistemelor solare şi topologii de invertoare fotovoltaice*", BULETINUL AGIR 2007-Energii alternative, Nr. 3, pp. 79-83, ISSN 1224-7928; (**CNCSIS-B+**).

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