



Mihaela Marilena Albu
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EDUCATION

Habilitation, El. Engineering, **September 2016**
Ph.D. Electrical Engineering, “Politehnica” University of Bucharest, Romania, **January 1998**; Dissertation: *Transient Phenomena on HV aerial lines for distance protection design*, PhD Advisor: Prof. Arie A. Arie
Dipl. Eng. Power Engineering, “Politehnica” University of Bucharest, Romania, **1987** (equiv. MSc.); Thesis: *Algorithms for Digital Distance Protection*, Advisors: Prof. Mircea Eremia; Prof. Razvan Magureanu;
Overall GPA (equiv.): 9.98 (maximal 10); ranked **first nationwide** among 800 power engineering graduates -class of 1987;

EMPLOYMENT

Professor Department of Electrical Engineering Politehnica University of Bucharest	Febr. 2002 –present
Department of Engineering taught in Foreign Languages – the German stream Politehnica University of Bucharest	Oct. 1992 -present
Department of Engineering – Electronics “1 Decembrie” University of Alba Iulia	Oct. 2008 – Oct. 2014
Associate Professor Department of Electrical Engineering Politehnica University of Bucharest	Oct. 2000 – Febr. 2002
Lecturer Department of Electrical Engineering Politehnica University of Bucharest	Febr. 1998 – Oct. 2000
Teaching Assistant Department of Electrical Engineering Politehnica University of Bucharest	Oct. 1990 – Febr. 1998
Power engineer trainee The Enterprise for Energy T&D, Bucharest	Oct. 1987 – Oct. 1990
Research associate National Institute of Research in Electrical engineering, ICPE, Group 26 at “Politehnica” University of Bucharest	Oct. 1988 – July 1990
Internships Isalnita I Thermo Power Plant, Romania	July-August 1986

CONSULTING

- **Independent expert H2020**, and **CEF Energy**, Brussels, **2014-2019**; **NCRD-PBSE** (Poland), online, **2018**; **FP7 - ICT, Security, REGPOT**; **Energy projects**, Bruxelles, 2011-2017; **FP6 - Smart Grids Cluster** of research projects, Bruxelles, 2008- 2011; **HR4SR**, Bruxelles, online, 2015-2019; **EUROSTARS**, 2016-2017, **ERANETMED** 2015; **NEWFELPRO** - Intern. Fellowship Mobility Progr. for Experienced Researchers in Croatia, 2014; **ANVUR /CINECA** (Agenzia Nazionale di Valutazione del Sistema Universitario e della Ricerca, Italia)- Evaluation of the Research Quality VQR 2011-2014, online, 2016-2017; **HubNet**, the Supergen Energy Networks Hub (UK), online, 2016; **ENERGY21**, Dublin, 2014; **Euramet, EMRP (EMPIR)** Calls for JRP and REG Proposals, 2009-2019; **ENERGIX** Program (Norway-India), Oslo, 2015; 2018; online 2019; **ERAfrica** Joint Call of Programme Owners, Call 2013; **CONCERT-Japan** Research and Innovation Joint Call 2012; **FWO** (Research Foundation Flanders), online 2013, 2018; **NRC** (Research Council of Norway), online 2013; The **Polish-Norwegian Research Program**, online 2013; **CuBR** Joint Program, Poland online, 2014, 2017; The **New Eurasia Foundation** Moscow, Russia, online, 2010-2013; Russian Science Foundation, 2015-2017; **DESMI** Program, Research Promotion Foundation (RPF), the Republic of Cyprus - ICT Call, 2009; **RESTART** Program, RPF, the Republic of Cyprus, 2018; **NSF** (Bulgaria National Science Fund), online, 2008-2010; **INTAS** (INTAS Council of scientists, www.intas.org), online, 2004-2008; **GNSF** (Georgia National Scientific Council), online, 2006-2018; **WIDESPREAD** -2020 TWINNING, online 2019; **CNCISIS- UEFISCDI**, Bucharest, 2003-2016;
- Member of the **ETIP SNET, WG1: Reliable, Economic and Efficient Smart Grid System**, 2017-2020
- Member of the Advisory boards of **FP7 - IDE4L** project, 2013-2016; **H2020 EriGrid** project, 2016-2019; **H2020 INTERPLAN** (INTEgrated oPeRation PLAnning tool towards the Pan-European Network) project 2017-2020;

- Member of **ERIGrid User Selection Panel** ('Connecting European Smart Grid Infrastructures'), H2020 project **2015-2019**
- Member of **UNI-SET Steering Committee** ('UNiversities in the SET-Plan'), FP7 project **2014-2017**
- Member of the Standards Subcommittee of the IEEE Smart Grid, **2013-**
- Member of the DC Energy Efficiency Committee, IEEE PES, **2014 –**
- **Moderator Smart Grids Session** at the SET Plan Conference on EU's Strategic Energy Technology Plan, Stockholm, October 21-22, 2009;
- **MC member, Intellicis:** Intelligent Monitoring, Control and Security of Critical Infrastructure Systems, COST Action nr. IC0806, 2009-2013; Vice-Chair WG2: Reliable management and control of electric power systems;
- Member of the Advisory Board for **the Engineering Education Report**, a web-based platform for analysis of the impact of new technologies on engineering education, starting with 2011, available at <http://ohm.ieec.uned.es/eer/about.php>
- UPB contact person for the **IIE Network** (the Institute of Int. Education's membership association).
- DAAD –Vorauswahl für die DAAD Stipendien im Bereich Ingenieurwissenschaften, **2009-2014**
- IBM/IEEE Smarter Planet Challenge (SPC) Student Competition review process: **2013, 2014, 2015**
- Romania- Fulbright Commission in Romania – Grants for Junior Fulbright, Senior Fulbright, Fulbright S&T Award, **2008-2019**;
- GE Leadership Program – Romania, **2008-2016**;
- IIE Scholarships in Science and Technology Research, The King Abdullah University of Science and Technology (KAUST)
- Romanian Ministry of Education, the "Romania Fellowship", Bucharest, **2007**
- **Host at UPB of Fulbright specialists:** dr. Reza Nekovei (2008-2009); James Dennison (2010-2011); dr. Viviana Vladutescu (2017-2018);
- **IEEE Transactions on Power Delivery, editor, 2012-2015**;
- **IET Science, Measurements and Technology, Associate Editor, 2018-**
- **IEEE Joseph F. Keithley Award in Instrumentation & Measurement Committee, member, 2019-2020**

Participant in **Exchange Programs** – teaching and research - all fellowship obtained by competition.

Total time spent abroad: **30 months**

- T. H. Darmstadt- Germany (DAAD, on *measurement systems*), 1992
- T. U. Lingby – Denmark (Tempus, on *signal processing*), 1994
- SUPELEC Paris -France (Tempus, on *data acquisition*), 1994
- Herder Institute Leipzig – Germany (DAAD, on *German language*), 1995
- Politecnico di Torino -Italy (Tempus, on *nonlinear phenomena in power systems*), 1996
- T. U. Siegen - Germany (Tempus, on *Sensors and data acquisition*), 1996
- T. U. Eindhoven - The Netherlands (Nuffic, on *Power quality*), 1998
- I.N. Polytechnique Grenoble - France (Tempus, on *numerical methods and optimization*), 1999
- Graduate of the course [PI.61s]: Leadership Skills for Engineering and Science Faculty, MIT Professional Institute, 16-18 July 2007, Cambridge, MA.
- Arizona State University – U.S.A. (Fulbright Senior Fellow, on *power quality*), 2002-2003
- Arizona State University – U.S.A. (Fulbright Senior Fellow, on *synchronized measurements*), 2010

LANGUAGES

First language: Romanian

Self-assessment

European level (*)

English

French

German

Italian

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
C1	Proficient user	C2	Proficient user	B2	Independent user	B1	Independent user	B2	Independent user
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user
B2	Independent user	B1	Independent user	A2	Basic user	A2	Basic User	A1	Basic user

PROFESSIONAL MEMBERSHIP

CIGRE (Conseil International des Grands Réseaux Electriques), 2009- ; Study Committee N B5-41: member of WG: Investigation of possibilities to improve metering systems for billing purposes in substations, 2010-2018; member of SC6 2012-2016; member of WG B3.44: Substation servicing and supervision using mobile devices and smart sensing, 2015-;

VDE (Verband der Elektrotechnik, Elektronik und Informationstechnik e.V.), 2010-; Energietechnik (ETG) si Mess- und Automatisierungstechnik (GMA);

IEEE (the Institute of Electronic and Electric Engineers), senior member; (M'98, SM'08); Vice-President Membership Development (2010-2011) and Technical Activities (2012-2013) of the Instr. and Meas. Society; Deputy President of the

Romanian Power Engineering Soc. Chapter (RO-PES). AdCom member the IEEE Instrumentation and Measurement Society, 2009-2016; IEEE IMS Romania Chapter Chair 2017-2019.

IEC, TC77/SC77A/WG9 Power Quality measurement methods, **2017-;**

TC 8/SC 8B/JWG 1 - General Planning, Design, Operation and Control of Microgrids, **2017-;**

TC 38/WG 55 - Uncertainty evaluation in the calibration of Instrument Transformers, **2018-;**

SyC LVDC/OF Open Forum 1 - Platform for open exchange of technologies, innovations, challenges in LVDC, **2018-;**

SyC LVDC/WG 1 - LVDC Standards for Electricity Access, **2018-;**

IEC TC8/JWG12: System aspects of electrical energy supply-Requirements for frequency measurement used to control DER and loads) **2019-**

IRE (Romanian Power Engineers Society - Asociatia inginerilor energeticieni din România), 2005-

ASRO (Romanian Standards Association), 2008 - ; member of CT140 (corresp. CLC/TC 57 & CEI/TC 57, Power systems management and associated information exchange EMS-SCADA); CT167 (corresp. IEC/PC 118; IEC/SC 8A; IEC/TC 115;

IEC/TC 8; CLC/SR 115; CLC/SR 118; CLC/TC 8X, System aspects of electrical energy supply); CT24 (corresp. CLC/SR 66 & CEI/TC 66, Safety of measuring, control, and laboratory equipment).

AGIR (Romanian Engineers Society - Asociatia Generala a Inginerilor din România), 2002 –

PUBLICATIONS AND TECHNICAL REPORTS

7 Books & book chapters; 40 Refereed Archival Journal Publications; 120 Refereed Intern. Conf. Proc.; 40 Non-refereed Publications, mostly in Romanian; 15 Laboratory notes (UPB), in Romanian and German; more than 100 Technical Reports

ResearcherID A-5538-2010; h-index 9 (WoS), 17 (GoogleScholar), i10-index: 36 (GoogleScholar);

RESEARCH FUNDING

Grants obtained by international competition, Project Director

- Pi1.** **Advanced educational technologies for automatic control education in Romanian Universities**, grant #7RUPJ062223.00, Swiss National Science Foundation; Project Directors: dr. Denis Gillet, EPFL, dr. Catalin Buiu, U.P.B, dr. **Mihaela Albu**, U.P. B., **2000-2003**
- Pi2.** **Tele-presence in education: A virtual laboratory for instrumentation in power systems**, grant #23, Bilateral Co-operation Romania-Italy 2001-2004. Project Directors: Alessandro Ferrero (Politecnico di Milano), **Mihaela Albu (UPB), 2001-2004**
- Pi3.** **VSYNC, Virtual synchronous machines for frequency stabilization in future grids with a significant share of decentralized generation**, Project STREP FP6, coord. Energy Research Centre of Netherland (ECN), **2007-2011**
- Pi4.** **PQACTNET Power Quality Assessment in Active Distribution Networks**, Bilateral Research Programme Romania-Cipru, Project Directors **Mihaela Albu**, E.Kyriakides, **2008-2009**.
- Pi5.** **ADVANCEDGRIDS, Enabling the integration of wide area measurement systems in the electric power grids of Cyprus and Romania** (Integrarea sistemelor de masurare pe arii extinse in retelele electrice din Cipru si Romania), Bilateral Research Programme Romania-Cipru, P.I.s **Mihaela Albu**, E.Kyriakides, **2010-2011**.
- Pi6.** **SMART REGIONS, Promoting smart metering best practices in EU**, CIP-IEE-2009, consortium coordinator Jyväskylä Innovation Ltd., FI; 2010-2013, EC funding: 75000 euros.
- Pi7.** **Hybrid, The formulation of the next generation state estimator by utilizing synchronized phasor measurements**. Project financed by Cyprus Research Promotion Foundation. Project partners: University of Cyprus, UPB, Cyprus TSO, **2012-2014**
- Pi8.** **WideView, The use of telecommunications and GPS technology for the real-time wide-area monitoring and control of power systems**, Project financed by Cyprus Research Promotion Foundation, Project partners: University of Cyprus, Arizona State University, UPB, Cyprus TSO, **2012-2014**.
- Pi9.** **SyncPower, Synchronized measurement technology for a higher degree of monitoring and control in the power systems of Cyprus and Romania**, Bilateral Research Program Romania-Cyprus, Project Directors **Mihaela Albu**, E. Kyriakides, 2014-2015
- Pi10.** **DCNextEve, LVDC microgrids for evolved energy communities**, Marie Curie Fellowship for dr. Irina Ciornei, financed by grant agreement 708844 - H2020-MSCA-IF-2015, host institution UPB-MicroDERLab, coord. **Mihaela Albu**, July 2016-June 2018
- Pi11.** **RE-DESIGN**, project ERASMUS+2016, coord. University of Cyprus, UPB Project Director **Mihaela Albu**, November 2016-December 2018
- Pi12.** **NobelGrid**, Horizon 2020 Project, 2014-2018, UPB Project Director **Mihaela Albu**, Jan. 2017-July 2018
- Pi13.** **FISMEP, funded by ERA-NET Smart Grid+**, UPB Project Director **Mihaela Albu**, 2017-2020

Grants obtained by international competition, member of project team

- Pit1. DISNOTECH (2001-2002)-** *Tehnologies multimedia pour l'enseignement en genie électrique*, a Leonardo da Vinci Program RO/8/2/06466/P.I./II.1.1.c/FPC, dedicated to continuous education in modern electrical engineering topics. Project Director Prof. C. Vlaicu
- Pit2. CRISTAL**, *Control of Renewable Integrated Systems Targeting Advanced Landmarks*, FP6 CA Project NR. 038405, 2007-2009, Project Coordinator Anglia Ruskin University (GB), UPB Principal Investigator Prof. Razvan Magureanu.
- Pit3. HYDROPOWER:** a South-East Europe (SEE) Transnational Cooperation Programme Project, 2009-2011, Project Director R. Magureanu.
- Pit4. FLEXMETER**, Flexible smart metering for multiple energy vectors with active prosumers, **Horizon 2020 Project, 2014-2017**, Project Director Ana Maria Dumitrescu
- Pit5. EnergyMAD**, funded by the DERri FP7 project, *Laboratory access for MicrodERLab team*: Mihai Calin, Tiberiu Tudorache, Radu Porumb, **Mihaela Albu (P.I.), 2012**
- Pit6. S4G**, *Storage4Grid*, financed under H2020 Programme, topic LCE-01-2016, coord. Istituto Superiore Mario Boella, Italy, UPB Project Director **Mihai Sanduleac**, 2016-2019
- Pit7. RE-SERVE**, *Renewables in a Stable Electric Grid*, financed under H2020 Programme, topic LCE-07-2016-2017, coord. Ericsson, Germany; UPB Project Director **Lucian Toma**, 2016-2019
- Pit8. ITcity**, funded by ERA-NET LAC, coord. UPB Project Director **Ana Maria Dumitrescu**, 2017-2019

Grants obtained by national competition, Project Director (recent)

- **DCnet**, *DC Distribution Networks for Industrial Applications*, CNCSIS 010608/07.06/2006 (Consortiu), P.I.: **Mihaela Albu, 2006-2008**
- **ENHIT**, *Emerging technologies for power supply of high-tech buildings*, National Research Project – PNCD II-Parteneriate nr. 21065/14.09.2007, P.I.: **Mihaela Albu, 2007-2010**
- **TAMPERE**, *Advanced measurement solutions and parameter estimation techniques for active distribution networks*, Grant CNCSIS IDEI 1402, P.I.: **Mihaela Albu, 2009-2011**.
- **ActiveDGModel**, *Active distribution networks. Parameters identification and function analysis using synchronized measurement systems* PN-II-ID-PCE-2011-3-0693, P.I.: **Mihaela Albu, 2012-2016**.

Personal honors and awards:

- Standardization *Ambassador*, ASRO, Bucharest, October 2018
- IEEE- Instrumentation and Measurement Society *Distinguished Lecturer*, Talk Title: High Reporting Rate Measurements for Smart[er] Grids, 2016-2022,
- *Third Prize*, World Energy Council, FOREN 2014, July 2014.
- *Best paper award* for M. Asprou, E. Kyriakides, and **M. Albu**, “The effect of instrument transformer accuracy class on the WLS state estimator accuracy,” IEEE Power and Energy Society General Meeting, Vancouver, Canada, July 2013 (presented in the Session: “Best Papers on Network Analysis and Dynamic Performance”).
- *Senior Fulbright Fellow*, 2002-2003 and 2010 - Arizona State University
- Certificate of recognition, The IEEE Instrumentation and Measurement Society for *outstanding service to IEEE Transactions on Instrumentation and Measurement and Recognition as one of Transactions “Outstanding reviews 2010”*, “Outstanding reviews 2013”
- Second Prize – *the UPB Students’ Conference, Power Engineering Session*, Bucharest, May 1987,
- First Prize – *nationwide - the 18th National Students’ Conference, section Power Engineering*, for the work “*Digital Distance Protection*”, November 1986, Cluj, Romania;
- Second Prize – *the UPB Students’ Conference*, Bucharest, May 1986;
- First Prize – *the UPB Students’ Conference, section Power Engineering*, April 1985;
- *Several Prizes at Student competitions, 1983-1986 on Electrical engineering, Philosophy, Mathematics.*
- *Dean’s list, Politehnica University of Bucharest, 1985-1987*

Invited and ad-hoc presentations at international events (selection, recent):

- Mihaela Albu, **2019**, invited talk on *Measurement for Smart[er] Grids. Teaching and Research at UPB*, 13th EURAMET Electricity and Magnetism contact persons meeting, Bucharest, 9 Oct. 2019
- Mihaela Albu, **2019**, invited talk on *Intelligent Measurement Systems for Smart[er] Grids*, Ogarev Mordovia State University, Saransk, Russia Federation, 11 Sept. 2019
- Mihaela Albu, **2019**, invited talk on *Measurements in [Electric] Power Systems*, the PMU Metrology Meeting at PNNL, Richland, WA, 23 April 2019
- Mihaela Albu, **2019**, invited talk on *Intelligent Measurement Systems for Smart[er] Grids Control, ICACCP Conference, Sikkim Manipal Institute of Technology, Sikkim, India, 27 February 2019*
- Mihaela Albu, **2019**, technical talk on *High Reporting Rate Measurements for Smart(er) Grids*, Indian Institute of Engineering Science and Technology, Shibpur, West Bengal, 01 March 2019
- Mihaela Albu, **2018**, technical talk on *Measurements and Models*, Universiti Teknologi Malaysia, Kuala Lumpur, 28 November 2018
- Mihaela Albu, **2018**, *High Reporting Rate Measurements for Smart(er) Grids*, Keynote Speaker at the 5th International Conference on Smart Instrumentations, Measurements and Applications, Songkla, Thailand, 29 November 2018
- Mihaela Albu, **2018**, *The new role of measurements in emerging power systems*, Invited Lecture at DynPower Workshop, Winterthur, Switzerland, 17 September 2018
- Mihaela Albu, **2018**, panelist at *DC-hybrid grids support*, Directorate General for Energy, Brussels, 27 May 2018;
- Mihaela Albu, **2018**, *Future electricity grids: conflicting visions, common perspective*, Invited Lecture at SATTEE 2018, Alba Iulia, 22 June 2018
- Mihaela Albu, **2017**, *High Reporting Rate Measurements for Smart(er) Grids*, Invited Lecture at the IEEE-RDCAPE Conference, Amity University Uttar Pradesh, Noida, India, 27 Oct. 2017
- Mihaela Albu, **2017**, *High Reporting Rate Measurements for Smart(er) Grids*, Invited Lecture at the 5th IEEE-ISEEE Conference, Technical University “Dunarea de Jos” Galati, 21 Oct. 2017
- Mihaela Albu, **2017**, *High Reporting Rate Measurements for Smart(er) Grids*, Technical Lecture Series, University of Manchester, 18 Sept. 2017
- Mihaela Albu, **2017**, *DC microgrids*, at “Relevance of electronic components and systems in the energy domain” – experts meeting, Brussels, 4th Sept. 2017
- Mihaela Albu, **2017**, *Embedding Intelligence in Future Grids conflicting visions, common perspective*, Fraunhofer IoT Innovation and Networking Days, Sankt Augustin, Germany, 22 May 2017
- Mihaela Albu, **2017**, *UPB - MicroDERlab experience*, in Panel session *Addressing global challenges through research collaboration*, at the Fourth Arab-Euro Conference on Higher Education (AECHE 4) –Rabat, 25 April 2017
- Mihaela Albu, **2017**, *Future connectivity networks & mission-critical services in the energy sector - a measurement perspective* at “5G and Energy” – experts meeting, Brussels, 14th March 2017
- Mihaela Albu, **2016**, *Measurement technology and the new models in emerging power systems*, Outlook Session: Education for the future Energy systems, at the Universities in the SET-Plan (Uni-SET) 3rd energy clustering event, Bucharest, 24 November 2016.
- Mihaela Albu, Elias Kyriakides, **2016**, *The impact of measurements on power system state estimation*, Tutorial at the IEEE- I2MTC Conf., Taipei, 23 May 2016.
- Mihaela Albu, **2015**, *panelist session Materials for Power Train – Critical Technologies*, EuroCASE workshop: Innovation in Cooperation Airbus Group, Regional Electrical Aircraft Critical Technologies Review, Munich, 1st July 2015.
- Mihaela Albu, **2015**, *A Measurement Course and Laboratory for the Power Engineering undergraduate students at UPB*, Panel Undergraduate power engineering laboratories, PES GM Conference, Denver CO, 29 July 2015.
- Mihaela Albu, **2015**, *Measurement data aggregation in emerging power systems*, Tutorial at the IEEE- I2MTC Conf., Pisa, 10 May 2015.
- Mihaela Albu, **2014**, *Measurements, field testing and numerical simulation in power engineering*, tutorial at the 49th International Universities' Power Engineering Conference, UPEC' 14, Cluj-Napoca, Romania, 2 Sept. 2014
- Mihaela Albu, **2014**, *Obtaining coherent information from measurements in smart grids*, tutorial at World Energy Council, FOREN 2014, July 2014
- Mihaela Albu, **2013**, *On the energy transfer in the emerging power systems: new models or better measurements?'*, invited lecture at the 2013 IEEE Workshop on Integration of Stochastic Energy in Power Systems, Bucuresti, 7 November 2013

- Mihaela Albu, **2013**, *On Power Quality Assessment: accurate vs. meaningful*, Gerald T. Heydt, Festschrift, 13 October, Arizona State University, Tempe, AZ
- Mihaela Albu, **2013**, *Opportunities for updating the power quality standards following the large scale availability of synchronized measurements*, presented (co-author Ana Maria Dumitrescu) at the Workshop *Smart Grid: global standards for global market*, 11 September 2013, Bucuresti
- Mihaela Albu, **2013**, *Measurements: A tool or a problem?*, invited lecture at NTUA, 19 September 2012, Athens
- Mihaela Albu, **2013**, *Extending OpenPDC into a versatile Data Concentrator for synchronized measurements*, presented (co-author Alexandru Nechifor) at Wide View - The use of telecommunications and GPS technology for the real-time wide-area monitoring and control of power systems Seminar, 11-16 March 2013, Nicosia, Cyprus
- Mihaela Albu, **2012**, *Showcasing new business for consumer based Smart metering services pre-conference seminar*, presented at Metering, Billing/ CRM Europe, Amsterdam, 8 October 2012
- Mihaela Albu, **2012**, *Grid measurements: a tool or a problem?*, tutorial presented at the INTELLICIS Workshop, Riga, Latvia, 11 September 2012
- Mihaela Albu, **2012**, *Metering & Instrumentation Technology for Microgrids*, Évora 2012 Symposium on Microgrids, 3-4 Sept. 2012
- Mihaela Albu, **2012**, *Finanzierung und Management von Projekten im Hochschulbereich – Wer, warum, wo, wie?*, DAAD-Alumnitreffen - Finanzierung und Management von Projekten im Hochschulbereich, Bukarest, 7./8. Juni 2012
- Mihaela Albu, **2012**, *Measurement, Modeling and Estimation in Intelligent Energy Networks*, RT F1: Future Smart Grids for Utilities - SMART GRID, at FOREN, 18 June 2012 Neptun 2012
- Mihaela Albu, **2011**, *The Storage Component in Active Distribution Grids*, the INTELLICIS Workshop on Energy Storage, Milano, Italy, 27 September 2011
- Mihaela Albu, **2011**, *Synchronous Measurements for Monitoring a Grid Section with Hydro Power Generators*, the INTELLICIS Workshop on Reliable Management and Control of Electric Power Systems, Villanova i Getru, Spain, 14 June 2011 (with R. Magureanu)
- Mihaela Albu, **2011**, *Enhancing the Measurements Layer and Energy Efficiency Goals in Smart Grids. Experience from SEE-HydroPower and IEE-SmartRegions projects*, 7th Southeast European Congress on Energy Efficiency and Renewable Energy - Sofia, Bulgaria, 14 -15 April 2011.
- Mihaela Albu, **2010**, *Power systems in a time of challenges*, OLF presentation at University of Central Florida, Orlando, FL, 19 April 2010.
- Mihaela Albu, **2010**, *Smart Grids. Definitions, Challenges, Perspectives*, Invited paper at SATEE 2010, September 2010, Alba Iulia
- Mihaela Albu, **2010**, *Fundamentals of power and energy measurement*, **tutorial** at the I2MTC '10. IEEE Instrumentation and Measurement Technology Conference, Austin, TX, 3-6 May 2010.

A3.2.2. Invited presentations at national events (selection, recent):

- Mihaela Albu (org.), Radu Plamanescu, Stefan Gheorghe, **2019**, *Synchronized measurements in the FISMEP project*, at the IRE Workshop „Emerging energy systems and the use of synchronized measurements”, Bucharest, 13 June 2019
- Mihaela Albu, Mihai Sanduleac, Viorel Petre **2018**, *Self-consumption analysis using enhanced (NobelGrid) Smart meters*, at the IRE Workshop „Smart Metering for Smart Cities”, Bucharest, 27 June 2018
- Mihaela Albu, **2018**, *Noutati privind masurarea frecventei in IEC si CEN-CENELEC*, at CIGRE B5 meeting, Sibiu, 29 March 2018
- Mihaela Albu, Mihai Sanduleac, **2017**, *Smart Metering for energy communities- the Storage4Grid project (Aplicatii ale contorizarii inteligente in configuratie USM pentru comunitatile de utilizatori care includ prosumeri - proiectul Storage4Grid - in Romanian)*, at the Smart Metering Symposium, Sibiu, 16 Nov. 2017
- Irina Ciornei, Mihaela Albu, **2017**, *Microgrids and cell-based energy systems (Microretele si sisteme de energie in conceptie celulara. Definitii, provocari, proiecte, perspective, in Romanian)*, at the Symposium “Tehnologii și arhitecturi ale sistemelor energetice ale viitorului”, Energy Committee of the Romanian Academy - CEAR, Bucharest, 14 Sept. 2017
- Mihaela Albu, **2017**, *Who is in the time capsule?– the role of universities towards the 100% RES goal*, Panel discussion on Network codes, governance and regulatory issues for the transition towards 100% RES, Sustainable Energy Week, Bucharest, 23 June 2017
- Mihaela Albu, **2017**, *MicroDERLab and the R&D European perspectives (MicroDERLab@UPB: profilul actual in peisajul C&D/R&D European si mondial. Teme de viitor, perspective de colaborare si potențiale surse de impas in Romanian)*, at the IRE Workshop „Perspectivele cercetării romanesti in energie”, Bucharest, 1 Nov. 2017

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- Mihaela Albu, Ana Maria Dumitrescu, **2016**, *The impact of the power systems modelling on the measurement chain*, Research Challenges in Intelligent Energy Systems - Mathematical Models and Applications -May 07 2016, Faculty of Applied Sciences, University Politehnica of Bucharest
 - Mihaela Albu, Ana Maria Dumitrescu, **2015**, *Evaluarea online a sistemelor de transfer al energiei. Coeficienti de aproximare de model*, Simpozion Securitatea și Calitatea sistemelor energetice: modele, tendințe, abordări pluridisciplinare și interdisciplinar, Academia Romana, Bucuresti, 10 decembrie 2015
 - Mihaela Albu, **2015**, *O platformă pentru măsurări sincronizate, agregare de date și extragere de informație*, (coautor Alexandru Nechifor), Ro-CIGRE B5 Workshop, Vidraru, 26 martie 2015,
 - Mihaela Albu, **2013**, *„Monitorizarea transferului de energie în rețelele inteligente. Implicatii ale agregării datelor”*, invited talk (in Romanian) at the Workshop : « Aspecte tehnice si economice privind dezvoltarea RET si identificarea unor proiecte si solutii de Smart Grid» - Cheia, Romania, 17 October 2013
 - Mihaela Albu, **2012**, *Tehnici de estimare a stărilor utilizând unități de măsurare a fazorilor (Phasor Measurement Units, PMU)*, presented (in Romanian) at the IRE Workshop „Măsurări sincronizate în electroenergetică”, Bucuresti, 14 September 2012
 - Mihaela Albu, **2012**, *Cerințe privind calitatea sistemelor de măsurare utilizate în algoritmi de estimare a stărilor*, presented (in Romanian) at the IRE Workshop „Modelarea rețelelor electrice de distribuție între validare experimentală și realitate”, WESC2012, Suceava, 29 iunie 2012
 - Mihaela Albu, **2010**, *Fundamentals of Power and Energy Measurements*, IRE Power Quality Workshop, 30 November 2010, Bucharest
 - Mihaela Albu, **2010**, *VSG solutions for Intelligent Distribution Networks*, IRE Smart Grids Workshop, Bucharest, 24 November 2010
 - Mihaela Albu, **2010**, *Smart Metering Panel Chair*, Smart Grids and DSOs Conference, 2-3 November 2010, Bran, Romania.

29.12. 2019