



Mihaela Marilena Albu

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	Febr. 2002 –present
Department of Electrical Engineering Politehnica University of Bucharest	
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
Teaching Assistant / Lecturer/Associate Professor	Oct. 1990 – Febr. 2002
Department of Electrical Engineering Politehnica University of Bucharest	
Power engineer trainee	Oct. 1987 – Oct. 1990
The Enterprise for Energy T&D, Bucharest	

CONSULTING

- **Independent expert H2020, InnovationFund and CEF Energy**, Brussels, **2014-2023**; **NCRD-PBSE** (Poland), **2018-2021**; **FP7 - ICT, Security, REGPOT**; **Energy projects**, Bruxelles, 2011-2017; **FP6 - Smart Grids Cluster** of research projects, Bruxelles, 2008- 2011; **HR4SR**, Bruxelles, 2015-2020; **EUROSTARS**, 2016-2023; **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, 2016-2017; **HubNet**, the Supergen Energy Networks Hub (UK), 2016; **ENERGY21**, Dublin, 2014; **Euramet, EMRP (EMPIR)** Calls for JRP and REG Proposals, 2009-2021; **ENERGIX** Program (Norway-India), Oslo, 2015; 2018-2020; **ERAfrica** Joint Call of Programme Owners, Call 2013; **CONCERT-Japan** Research and Innovation Joint Call 2012; **FWO** (Research Foundation Flanders), 2013, 2018; **NRC** (Research Council of Norway), 2013, 2021; The **Polish-Norwegian Research Program**, 2013; **CuBR** Joint Program, Poland, 2014, 2017; The **New Eurasia Foundation** Moscow, Russia, 2010-2013; **Russian Science Foundation**, 2015-2017;2020; **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), 2008-2010; **INTAS** (INTAS Council of scientists, www.intas.org), 2004-2008; **GNSF** (Georgia Nat. Scien. Council), 2006-2018; **WIDESPREAD** -2020 TWINNING, 2019, 2022; **FONDECYT** (Chile), 2020; **CNCIS- UEFISCDI**, Bucharest, 2003-2022;
- 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; **EMPOWER** (INTEGRATED/0916/0035) 2019-2022; **STRATEGY** (Facilitating EU pre-Standardization process Through stReamlining and vAlidating inTeroperability in systems and procEdures involved in the crisis manaGement cYcle) 2021-2023;
- Member of **ERIGrid/ ERIGrid2.0 User Selection Panel** ('Connecting European Smart Grid Infrastructures'), H2020 project **2015-2023**
- Member of **UNI-SET Steering Committee** ('UNiversities in the SET-Plan'), FP7 project **2014-2017**
- **Moderator Smart Grids Session** at the SET Plan Conference on EU's Strategic Energy Technology Plan, Stockholm, Oct. 21-22, 2009;
- **Member WG5, PV in grids**, COST Action PEARL PV (CA16235) on "Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data", 2018-2021.
- **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>
- 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, **2008-2020**;

- IIE Scholarships in Science and Techn. 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, 2019-2022
- Member IEEE IMS TC 39, Measurements in Power Systems – **2016 Outstanding TC award**

Coaching

- Proctor of the "Powerhouse" UPB team at the International Programming Competition IEEEExtreme Challenge ranked 3rd in 2015, from 2000 teams / ranked 8th in 2014, from 1600 teams / ranked 6th in 2013/ ranked 4th in 2009;
- Ramona Huluba, Digitization: the key to a modern society, winner and paper presentation at E-lectricity. The power sector goes digital, Eurelectric Annual convention & conference, Vilnius, 6-7 June 2016;
- GE Leadership Program – Romania, **2008-2016**;

Policy Adviser

- Member Comisia de Inginerie Electrica a Consiliului Național de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (CNATDCU), 2020-2024
- Member of the Romanian Advisory Board for Research-Development and Innovation – CCCDI, 2021-2025
- Member of the Committee elaborating the Romania R&D Strategy 2024-2030, MCID Sipoca 592 Bucharest, 2021.
- Member of the SET Plan Temporary Working Group (TWG) on Low Voltage Direct Current technologies, 2023-

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

Total time spent abroad (fellowships): **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
- Arizona State University – U.S.A. (Fulbright Senior Fellow), 2002-2003 and 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	Proficient user
C1	Proficient user	C2	Proficient user	B2	Independent user	B1	Independent user	B2	Independent user	Independent user
B2	Independent user	C1	Proficient user	B2	Independent user	B2	Independent user	B2	Independent user	Independent user
B2	Independent user	B1	Independent user	A2	Basic user	A2	Basic User	A1	Basic user	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-; member CIGRE/IEEE C4/C2.62 Working Group (Advancements in Synchrophasor Measurement Applications), 2020-;
- **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-** **IEC TC8/JWG 9 - LVDC distribution, 2020 -**;
- **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). **Standardization Ambassador, ASRO, Bucharest, Oct. 2018**;
- **AGIR (Romanian Engineers Society - Asociatia Generala a Inginerilor din România), 2002 -**

PUBLICATIONS AND TECHNICAL REPORTS

7 Books & book chapters; 50 Refereed Archival Journal Publications; 180 Refereed Intern. Conf. Proc.; 50 Non-refereed Publications, mostly in Romanian; 15 Laboratory notes (UPB), in Romanian and German; more than 150 Technical Reports

ResearcherID A-5538-2010; h-index 12 (WoS), 21 (GoogleScholar), i10-index: 48 (GoogleScholar);

RESEARCH FUNDING

Grants obtained by national/international competition, Project [co-]Director (recent)

- **CARDEA** (Towards a Europe-Wide Training and Networking Scheme for Research Managers), a HORIZON-WIDERA project coordinated by University College Cork, 2022-2026
- **Engineer your Future!**, financed by US Embassy, 2021-2022
- **EMERGE (Advanced Measurement Framework for Emerging Power Systems)**, 2021-2023, PN-III-P4-ID-PCE2020-2, P.I. Mihaela Albu
- **I-GRETA (ERA-NET Energy Storage Solutions)**, 2020-2024, *Intelligent FIWARE-based Generic Energy Storage Services for Environmentally Responsible Communities and Cities*, coordinated by RWTH Aachen University, Germany, UPB team leader dr. Mihaela Albu.
- **FISMEP (ERA Net Smart Grids Plus)**, 2017-2020: Coordinated by RWTH Aachen University, Germany, the project aims to unlock Smart Grid Technologies and Services by means of a standardized software platform that can support interoperability. UPB team leader dr. Mihaela Albu.
- **DCNextEvE** a H2020 –MSCA (2016-2018) project (**Fellow dr. Irina Ciornei**) with the main purpose to design and analysis of novel methods for management and control of multiple building scale DC microgrids operating on a specific territory (region) and willing to share the same objective (coordinated distributed management). Host (UPB): dr. Mihaela Albu
- **NobelGrid**, a H2020 project (2014-2018) with the aim to develop, deploy and evaluate advanced tools and ICT services for energy DSOs cooperatives and medium-size retailers, enabling active consumers involvement and flexibility of the market; 21 partners from industry, academia and utilities; UPB team leader: dr. Mihaela Albu
- **REDESIGN (ERASMUS+)**, 2016-2019, an interdisciplinary project bringing together a group of experienced practitioners in diverse disciplines, such as electrical engineering, computer-assisted language learning, second language pedagogy, and ICT from different academic institutions and organizations across Europe to redesign parts of their courses to offer immersive, engaging, and collaborative learning experiences across different academic institutions. UPB team leader dr. Mihaela Albu.

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, 2016-2024,
- *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

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

- Mihaela Albu, **2023**, Career Acknowledgement for Research Managers, 34th KOWI Annual Conference on EU Funding for Research & Innovation, Rostock, 15 June 2023
- Mihaela Albu, **2023**, lecture on *Measurements for flexible power grids*, ISINA Conference, Chemnitz, Germany, 31 March 2023 [online]
- Mihaela Albu, **2022**, Keynote lecture on *High Reporting Rate Measurements for Smart[er] Grids*, IEEE ETCM Conference, Quito, Ecuador, 13 oct. 2022
- Mihaela Albu, Grigore Stamatescu, **2022**, *Data Pre-processing Techniques for Multiscale Measurement Analytics*, Tutorial IEEE-I2MTC Conf., Ottawa, 16 May 2022.
- Mihaela Albu, **2022**, talk on *Measurements and models for PV integration in prosumers' environment*, Session „PV in the built environment”, at the COST Action PEARL PV's Conference Enabling the PV Terawatt Transition University of Twente, Enschede, The Netherlands, 15 March 2022 [online]
- Mihaela Albu, **2021**, talk on *Modelling and Data Analytics in Smart Grids*, Measurement Challenges related to Smart Electricity Grids, (Session 2), 25 Nov. 2021
- Mihaela Albu, **2021**, invited talk on *[DC] Measurements and Quality of Service*, Webinar on Low Voltage Direct Current (LVDC) and DC Technologies: Potential applications for a clean energy transition, Directorate General for Energy, Brussels, 10 Nov. 2021
- Mihaela Albu, **2021**, Panel Discussion on *the Impact of Standardization on Digitalizing the Electricity Sector*, The Role of Standardization to Fostering the Digitalization of the Electricity Grid, EUROPEAN STANDARDIZATION EVENT, 3 Nov. 2021

- Mihaela Albu, **2021**, invited talk on *High Reporting Rate Measurements for Smart[er] Grids*, 28th Annual Seminar on Automation, Industrial Electronics and Instrumentation (SAAEI2021) Ciudad Real, Spain, [online], 09 July 2021
- Mihaela Albu, **2020**, invited talk on *Phasor Measurement Units and the Semantic Noise in State Estimators*, at Evolution of Power Systems - A Workshop in memory of Elias Kyriakides, [online], 22 oct. 2020
- 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, **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**, panelist at *DC-hybrid grids support*, Directorate General for Energy, Brussels, 27 May 2018;
- 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**, *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 Nov.2016.

Publications (selection, recent):

- ✚ G. Stamatescu, R. Plamanescu; Mihaela Albu; **2023**, Leveraging Anomaly Detection and AutoML for Modelling Residential Measurement Power Traces, *Proc. of the IEEE AMPS Workshop*, Sept. 2023, Bern, Switzerland.
- ✚ M. Sanduleac, V. I. Ciornei, L. Toma, R. Plamanescu, A. -M. Dumitrescu and M. Albu, **2022**, "High reporting rate smart metering data for enhanced grid monitoring and services for energy communities," in *IEEE Transactions on Industrial Informatics*, 2022
- ✚ Radu Plamanescu; Ana-Maria Dumitrescu; Mihaela Albu; Siddharth Suryanarayanan, **2021**, A Hybrid Hilbert-Huang Method for Monitoring Distorted Time-Varying Waveforms, *Energies* 2021, 14(7), 1864;
- ✚ L-. Toma, M-. Sanduleac, M-. Albu, C-. Diaconu, C-. Stanescu, **2020**, Frequency analysis in the Romanian power system under major grid disturbances, *Proc. of the CIGRE Session 48, C4 – Power System Technical Performance PS2 / Modelling of the Future Grid Based on Lessons Learned from System Events*, Paris, August 2020.
- ✚ E. S. N. Raju P. ; Alexandru Nechifor; Mihaela M. Albu; James Yu; Vladimir Terzija, **2020**, Development and Validation of a New Oscillatory Component Load Model for Real-time Estimation of Dynamic Load Model Parameters, *IEEE Transactions on Power Delivery*, 2020, Volume: 35, Issue: 2,
- ✚ Maliheh Haghighi, Alberto Dognini, Thomas Storek, Radu Plamanescu, Ulrike Rahe, Stefan Gheorghe, Mihaela Albu, Antonello Monti and Muller Dirk, **2020**, *Open Smart Energy Eco-System for the Future*, Proc. of BEYOND2020, Gothenborg, November 2020
- ✚ Markos Asprou, Elias Kyriakides, Mihaela M. Albu, **2018**, Uncertainty Bounds of Transmission Line Parameters Estimated From Synchronized Measurements, *IEEE Trans. on Instr. and Measurement*, volume: 68 , Issue: 8 , Aug. 2019, ISSN 0018-9456.
- ✚ Mihaela Albu, Mihai Sanduleac, Carmen Stanescu, **2017**, Syncretic use of smart meters for Power Quality monitoring in emerging networks, *IEEE Transactions on Smart Grid*, Volume: 8, Issue: 1, pp. 485 – 492, 2017

**

- CIGRE TB 826 Hybrid Systems for Off-Grid Power Supply, Jan. **2021**, Members WG. C6.28: B. Buchholz, Convener, P. Chusovitin, Secretary, et al.
- Borana Taraj, Douglas Halliday, et al., Eds., **2017**, *Energy Transition and the Future of Energy Research, Innovation and Education: An Action Agenda for European Universities*, EUA, Dec. 2017, Brussels; available online: <https://energy.eua.eu/component/attachments/attachments.html?id=299>
- Marnay C., Kroposki, B. et al., **2015**, *The Tianjin 2014 Symposium on Microgrids: A meeting of the minds for international microgrid experts*, IEEE Electrification Magazine, Vol. 3, Issue: 1, DOI: , pp. 79- 85, ISSN: 2325-5897
- S. Renner, M. Albu, s.a., **2012**, *European Smart Metering Landscape Report*, available from the SMART REGIONS project: Promoting smart metering best practices in EU, www.smartregions.net, Febr. 2011(1st ed), Sept. 2012 (2nd ed.)

LIST of PUBLICATIONS

Mihaela Marilena ALBU

Books/ chapters in books

- Ca1.** K. Holbert, **Mihaela Albu**, F. Mihai, **2004**, *Online Experimentation with a Spectrum Analyzer in a Signal Processing Virtual Laboratory*, book Chapter 19 in *Innovations 2004: World Innovations in Engineering Education and Research*, W. Aung, Ed., Begell House Publishing for International Network for Engineering Education and Research (iNEER), pp. 201-213, ISBN 0-9741252-1-0

in Romanian:

- Cb1.** Cătălin Buiu, **Mihaela Albu**, **2000**, *Agenți software inteligenți. Principii fundamentale și aplicații*, 222 pagini, Ed. ICPE, 2000, ISBN 973-8067-14-6
- Cb2.** Mihaela Albu, **2000**, *Prelucrarea numerică a semnalelor din sistemele de măsurare*, 128 pagini. Ed. PRINTECH, București, ISBN 973-652-148-6
- Cb3.** **Mihaela Albu**, **2001**, *Prelucrarea semnalelor din sistemele de măsurare*, 140 pagini, Editura Secorex, 2001, ISBN 973-85298-8-3
- Cb4.** **Mihaela Albu**, **2002**, *Simulare și experimentare*, capitolul 5 in: G.G. Constandache, coord., *Filosofie și Științe Cognitive*, MatrixRom, București, ISBN 973-685-409-4, pp.128-143
- Cb5.** C. Cepisca, C. Golovanov, C., **Mihaela Albu**, C. Vlaicu, S. Grigorescu, M. Saracin, **2004**: *Bilanțuri electroenergetice. Măsurări electrice*, 106 pagini, Ed. PRINTECH, Bucuresti, 2004, ISBN 973-652-912-6.
- Cb6.** Ana Maria Dumitrescu, **Mihaela Albu**, **2019**, *Calitatea energiei electrice. Determinari cu rata mare de raportare*, 110 pagini, Editura MatrixRom, Bucuresti, 2019, ISBN 978-606-25-0517-2
- Cc1.** Carmen Golovanov, **Mihaela Albu**, coord., (9 authors) **2001**, Measurement issues in modern Power Systems (*Probleme moderne de măsurare în electroenergetică*, in Romanian), 800 pp, Editura Tehnică București, 2001, ISBN 973-31-2065-0

A1.2.2. Laboratory notes (mostly in Romanian);

- I1.** Carmen Ionescu Golovanov, Costin Cepisca, **Mihaela Albu**, Sorin Grigorescu, Florin Anghel, Laurentiu Ilie, *Măsurări electrice și electronice, Indrumar de laborator*, 136 pagini, Litografia UPB, **1994**
- I2.** Constantin Vlaicu, **Mihaela Albu**, *Sisteme digitale de măsurare. Îndrumar de laborator*, 60 pagini, Litografia UPB, **1994**.
- I3.** **Mihaela Albu**, *Elektrische Meßtechnik. Labor I*. Indrumar de laborator, 93 pagini, Litografia UPB, **1995**.
- I4.** **Mihaela Albu**, Catalin Dumitriu, coordonator Arie Arie, *Fenomene neliniare in sistemele electroenergetice. Indrumar de laborator*, 39 pagini, Litografia UPB, **1996**.
- I5.** Costin Cepisca, Constantin Vlaicu, Sorin Grigorescu, **Mihaela Albu**, Marius Leucutia, coordonator Costin Cepișcă, *Masurari electrice si electronice. Indrumar de laborator, partea I*, 74 pagini, Secorex, **1996**.
- I6.** Carmen Ionescu Golovanov, Constantin Vlaicu, Florin Anghel, Stefan Andrei, **Mihaela Albu**, Marin Ghinea, Sorin Grigorescu, Laurentiu Ilie, Viorel Petre, Marcel Stanciu, Daniela Urmă, coordonator Carmen Golovanov: *Măsurări electrice si electronice, Indrumar de laborator, partea I-a*, 164 pagini, Litografia UPB, **1996**.

- I7. Costin Cepisca, Constantin Vlaicu, Sorin Grigorescu, **Mihaela Albu**, Marius Leucutia, coordonator Costin Cepișcă, *Masurari electrice si electronice. Indrumar de laborator, partea a II-a*, 169 pagini, Secorex, **1997**.
- I8. Carmen Ionescu Golovanov, Constantin Vlaicu, Florin Anghel, Stefan Andrei, **Mihaela Albu**, Marin Ghinea, Sorin Grigorescu, Laurentiu Ilie, Viorel Petre, Marcel Stanciu, Daniela Urmă, coordonator Carmen Golovanov, *Măsurări electrice și electronice, Indrumar de laborator, partea a II-a*, 120 pagini, Lit. UPB, **1997**
- I9. Costin Cepisca, Constantin Vlaicu, **Mihaela Albu**, Sorin Grigorescu, Florin Anghel, coordonator **Mihaela Albu**, *Elektrische Meßtechnik; Praktikum II*. Indrumar de laborator, 90 pagini, Litografia UPB, **1997**.
- I10. Carmen Golovanov, Costin Cepisca, Sorin Grigorescu, Constantin Vlaicu, **Mihaela Albu**, Marius Leucutia. *Masurarea mărimilor electrice si neelectrice. Mărimi electrice. Indrumar de laborator*, 133 pagini, Litografia UPB, **1997**.
- I11. Costin Cepisca, Constantin Vlaicu, Sorin Grigorescu, **Mihaela Albu**, Cosmin Banica, George Seritan, coordonator Costin Cepisca, *Măsurări electrice si sisteme de măsurare. Indrumar de laborator I*, 74 pagini, Litografia UPB, **1999**.
- I12. Constantin Vlaicu, **Mihaela Albu**, *Sisteme numerice de măsurare asistate de calculator. Îndrumar de laborator*, 84 pagini, Litografia UPB, **1999**
- I13. Carmen Golovanov, Constantin Vlaicu, coord.; **Mihaela Albu**, Marcel Stanciu, V. Petre, D. Urma, D. Oancea, C. Cepisca, B. Pantelimon, Sorin Grigorescu: *Masurarea mărimilor electrice si neelectrice, partea a III-a. Indrumar de laborator*, 168 pagini, Litografia UPB, **2000**.
- I14. Carmen Golovanov, Constantin Vlaicu, Florin Anghel, Stefan Andrei, **Mihaela Albu**, Marin Ghinea, Sorin Grigorescu, Laurentiu Ilie, Marcel Stanciu, Daniela Urma: *Masurari electrice si sisteme de masurare, partea I-a. Indrumar de laborator*, 164 pagini, Litografia UPB, **2000**.
- I15. Carmen Golovanov, Constantin Vlaicu, Sorin Grigorescu, **Mihaela Albu**, Marcel Stanciu, V. Petre, D. Urma, C. Saracin: *Masurari electrice si sisteme de masurare, 1. Indrumar de laborator*, 173 pagini, Litografia UPB, **2001**.

A2.1. papers in journals and Conference Proceedings indexed by Clarivate

- Ris1. **Mihaela M. Albu**, G.T. Heydt, **2003**, *On the Use of RMS Values in Power Quality Assessment*, IEEE Transactions on Power Delivery, vol. 18, nr. 4, **Oct. 2003**, pp.1586-1588, ISSN: 0885-8977, WOS:000185659500072, **impact factor 1.733**
- Ris2. Geun-Joon Lee, **Mihaela M. Albu**, G. T. Heydt, **2004**, *A Power Quality Index Based on equipment Sensitivity, Cost and Network Vulnerability*, IEEE Transactions on Power Delivery, vol. 18, Issue 4, **Oct. 2003** Page(s):1586 – 1587, ISSN: 0885-8977, WOS:000222429300080, **impact factor 1.733**
- Ris3. **Mihaela M. Albu**, K. E. Holbert, G.T. Heydt, S. D. Grigorescu, V. Trușcă, **2004**, *Embedding Remote Experimentation In Power Engineering Education*, IEEE Transactions on Power Systems, vol. 19, no. 1, **February 2004**, pp.139-143, ISSN: 0885-8950, WOS:000188951000019, **impact factor 2.814**
- Ris4. **Mihaela Albu**, Alessandro Ferrero, Florin Mihai, Simona Salicone, **2005**: *Remote calibration using mobile, multiagent technology*, IEEE Transactions on Instrumentation and Measurement, Vol. 54, Issue 1, **Feb. 2005** Page(s): 24 – 30, ISSN: 0018-9456, WOS:000226342800004, **impact factor 2.794**
- Ris5. Elias Kyriakides, **Mihaela Albu**, G. T. Heydt, **2007**, *Identification of the standard parameters of a steam turbine – generator using wavelet denoising*, Journal of Electric Power Components and Systems, vol. 38, No. 10, **October 2007**, pp. 1145 – 1158, ISSN: 1532-5016, WOS:000248364200004, **impact factor 0.664**
- Ris6. Saikat Chakrabarti, Elias Kyriakides, **Mihaela Albu**, **2009**, *Uncertainty in Power System State Variables Obtained Through Synchronized Measurements*, IEEE Transactions on Instrumentation and Measurement, Vol. 58, Issue 8, **Aug. 2009** Page(s):2452 – 2458, ISSN: 0018-9456, WOS:000268033000010, **impact factor 2.794**

- Ris7. **Mihaela Albu**, Elias Kyriakides, G. Chicco, M. Popa, A. Nechifor, **2010**, *Online Monitoring of the Power Transfer in a DC Test Grid*, IEEE Transactions on Instrumentation and Measurement, vol. 59, Issue: 5, **2010**, Page(s): 1104 – 1118, ISSN: 0018-9456, WOS:000276416100014, **impact factor 2.794**
- Ris8. Markos Asprou, Elias Kyriakides, **Mihaela Albu**, **2014**, *The Effect of Variable Weights in a WLS State Estimator Considering Instrument Transformer Uncertainties*, IEEE Trans. on Instrumentation and Measurement, Vol. 63, Issue: 6, **2014**, Page(s): 1484 – 1495, ISSN: 0018-9456, WOS:000336787700010, **impact factor 2.794**
- Ris9. A. Nechifor, **Mihaela Albu**, R. Hair, V. Terzija, **2015**, *A flexible platform for synchronized measurements, data aggregation and information retrieval*, Electric Power Systems Research, Elsevier, Vol. 120, **March 2015**, Page(s): 20-31, ISSN: 0378-7796, WOS:000348885700003 **impact factor 1.749**
- Ris10. A. Nechifor, **Mihaela Albu**, R. Hair, V. Terzija, **2016**, *An enterprise platform for wide area monitoring of load dynamics using Synchronized Measurement Technology*, Elsevier, IFAC-PapersOnLine, Volume 49, Issue 27, 2016, Pages 85–90, WOS:000401257500015
- Ris11. **Mihaela Albu**, Mihai Sanduleac, Carmen Stanescu, **2016**, *Syncretic use of smart meters for Power Quality monitoring in emerging networks*, IEEE Transactions on Smart Grid, Volume: 8, Issue: 1, Pages: 485 - 492, DOI: 10.1109/TSG.2016.2598547, **impact factor 7.364**
- Ris12. Mihai Sanduleac, Irina Ciornei, **Mihaela Albu**, Lucian Toma, Marta Sturzeanu, Joao Martins, **2017**, *Resilient Prosumer Scenario in a Changing Regulatory Environment—The UniRCon Solution*, Energies 2017, 10(12), 1941; doi:10.3390/en10121941, **impact factor 2.676**
- Ris13. M. Sanduleac, João F. Martins, Irina Ciornei, **Mihaela Albu**, L. Toma, Vitor Fernão Pires, L. Hadjidemetriou and R. Sauba, **2018**, *Resilient and Immune by Design Microgrids Using Solid State Transformers*, Energies 2018, 11(12), 3377; DOI: 10.3390/en11123377, 2018, WOS:000455358300138, **impact factor 2.707**
- Ris14. Markos Asprou, Elias Kyriakides, **Mihaela M. Albu**, **2019**, *Uncertainty Bounds of Transmission Line Parameters Estimated From Synchronized Measurements*, IEEE Trans. on Instrumentation and Measurement, volume: 68, Issue: 8, Aug. 2019, ISSN 0018-9456, DOI: 10.1109/TIM.2018.2867966, **impact factor 3.067**, WOS:000476746200013
- Ris15. E. S. N. Raju P. ; Alexandru Nechifor; **Mihaela M. Albu**; James Yu; Vladimir Terzija, **2020**, *Development and Validation of a New Oscillatory Component Load Model for Real-time Estimation of Dynamic Load Model Parameters*, IEEE Transactions on Power Delivery, 2020, Volume: 35, Issue: 2, DOI: 10.1109/TPWRD.2019.2918059, **impact factor 4.415**
- Ris16. Radu Plamanescu; Ana-Maria Dumitrescu; **Mihaela Albu**; Siddharth Suryanarayanan, **2021**, *A Hybrid Hilbert-Huang Method for Monitoring Distorted Time-Varying Waveforms*, Energies 2021, 14(7), 1864; <https://doi.org/10.3390/en14071864> - 27 Mar 2021, **impact factor 2.7**.
- Ris17. M. Sanduleac, V. I. Ciornei, L. Toma, R. Plamanescu, A. -M. Dumitrescu and M. Albu, **2022**, "High reporting rate smart metering data for enhanced grid monitoring and services for energy communities," in IEEE Transactions on Industrial Informatics, doi: 10.1109/TII.2021.3095101, **impact factor 10.2**

- Vis1. **Mihaela Albu**, P. Postolache, C. Golovanov, **2000**, *Non-stationary Signals' Analysis in Power Systems A Time-Frequency Approach*, 10th Mediterranean Electrotechnical Conference, MeleCon2000, pp. 1181-1184, ISBN: 0-7803-6290-X, WOS:000166106500287
- Vis2. G.T. Heydt, D. S. James, E.S. Gel, **Mihaela Albu**, N.F. Hubele, **2003**, *The Reliability Analysis of High Power Switches Composed of Series and Parallel Branches*, Proc. of the IEEE PES 2003 General Meeting, Toronto, Canada, 13-17 July 2003, pp.472-479, ISBN: 0-7803-7989-6, WOS:000187500300119
- Vis3. **Mihaela Albu**, A. Ferrero, F. Mihai, Simona Salicone, **2003**, *Remote Calibration Using Mobile, Multi-Agent Technology*, Proc. of International Measurement and Technology Conference IMTC/2003 - 20-22 May, 2003 - Vail, CO, USA, pp. 802-806, ISBN: 0-7803-7705-2, WOS:000183417200153

- Vis4.** Postelnicu, I.; Nemes, C.; **Mihaela Albu**, Nemes, T.; **2005**, *Improving Romanian academic environment: A project*. Proc. of 3rd Balkan Region Conference on Engineering Education, Advancing Engineering Education, pp. 59-62, Sibiu, ROMANIA, 12-15 Sept. 2005, ISBN: 973-739-147-0, WOS:000242322000012
- Vis5.** R. Magureanu, **Mihaela Albu**, A. M. Dumitrescu, M. Priboianu, **2006**, *A practical solution for grid connected dispersed generation from renewable sources: DC connection*, Proc. of SPEEDAM 2006 – IEEE Conference, Taormina, June 2006, pp. 1228-1231, ISBN: 1-4244-0193-3, WOS:000245297200221
- Vis6.** Duyar, C. Kuzkaya, K. Duyar, R. Măgureanu, M. Naumof, M. Priboianu, **Mihaela Albu**, **2007**, *Monitoring and Diagnosis for Induction Microhydro Electric Generators*, Proc. of SDEMPED, the 6th IEEE International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives, Cracow (Poland), September 6-8, 2007, pp. 399-404, ISBN: 978-1-4244-1061-3, WOS:000253679600036
- Vis7.** D. Deaconu, A. Chirila, **Mihaela Albu**, L. Toma, **2007**: *Studies on a LV DC network*, Proc. of EPE2007, Sept. **2007**, Aalborg, Denmark (Proc. of EPE 2007, CD ROM), pp. 1-7, ISBN: 9789075815108, WOS:000255993601091
- Vis8.** R. Magureanu, **Mihaela Albu**, M. Priboianu, A.M. Dumitrescu, **2007**, *A DC Distribution Network with Alternative Sources*, Proc. of the 15th Mediterranean Conference on Control and Automation – MED07, 27-30 June, 2007 Athens, Greece, pp. 1-4, ISBN: 978-1-4244-1281-5, WOS:000257100800218
- Vis9.** S. Chakrabarti, D. Eliades, E. Kyriakides, **Mihaela Albu**, **2007**, *Measurement uncertainty considerations in optimal sensor deployment for state estimation*, Proc. of WISP 2007, Madrid, October 2007, pp. 513-518, ISBN 978-1-4244-0829-0, WOS:000252961000085
- Vis10.** Chirila, A.-I.; Deaconu, I.-D.; Navrapescu, V.; **Mihaela Albu**, Ghita, C., **2008**, *On the model of a Hybrid Step Motor*, Proc. of ISIE 2008, the IEEE International Symposium on Industrial Electronics, June 30 2008-July 2 2008 Page(s):496 – 501, ISBN: 978-1-4244-1665-3; WOS:000266702100179
- Vis11.** R. Magureanu, **Mihaela Albu**, V. Bostan, Al. Doka, **2008**, *Synchronous Generators Operating at Variable Speed in DC Networks*, Proc. of 18th Int. Conf. on Electrical Machines, ICEM 2008, Vilamoura, Portugal, ISBN: 978-1-4244-1735-3, pp. 1-6, WOS:000269315000106
- Vis12.** R. Magureanu, **Mihaela Albu**, V. Bostan, A.M. Dumitrescu, G. Dimu, F. Popa and M. Rotaru, **2008**, *Smart AC Grid Integrating Dispersed Small Hydropower Sources*, Proc. of OPTIM 2008, 21-24may 2008, Brasov, pp. 345-350, ISBN: 978-1-4244-1544-1, WOS:000258258700057
- Vis13.** R. Magureanu, **Mihaela Albu**, V. Bostan, A.M. Dumitrescu, M. Pelizza, F. Andreea, G. Dimu, F. Popa, M. Rotaru, **2008**, *Optimal Operation of Francis Small Hydro Turbines with Variable Flow*, Proc. of the IEEE International Symposium on Industrial Electronics ISIE'08, 30 June-2 July, 2008, Cambridge, UK, 1562-1567, ISBN: 978-1-4244-1665-3, WOS:000266702101067
- Vis14.** I. Mangeac, **Mihaela Albu**, **2008**, *The Signal Processing Course at the Department of Electrical Engineering of "Politehnica" University of Bucharest. A First Evaluation*, Proc. of Quality Management in Higher Education, pp. 131-136, WOS:000260248300023, ISBN:978-973-730-496-4
- Vis15.** **Mihaela Albu**, Visscher, K.; Creanga, D.; Nechifor, A.; Golovanov, N., **2009**, *Storage selection for DG applications containing virtual synchronous generators*, Proc. of IEEE PowerTech, Bucharest, June 28 2009-July 2 2009 Page(s): 1 – 6, ISBN: 978-1-4244-2234-0, WOS:000276834600285
- Vis16.** Apetrei, D.; Chicco, G.; Postolache, P.; Golovanov, N.; **Mihaela Albu**, **2009**, *Cluster analysis of half-cycle duration measurements to classify local and network events*, Proc. of IEEE PowerTech, Bucharest, June 28 2009-July 2 2009, Page(s): 1 – 7, ISBN: 978-1-4244-2234-0, WOS:000276834600202
- Vis17.** Van Thong, V.; Woyte, A.; **Mihaela Albu**, Van Hest, M.; Bozelie, J.; Diaz, J.; Loix, T.; Stanculescu, D.; Visscher, K., **2009**, *Virtual synchronous generator: Laboratory scale results and field demonstration*, Proc. of IEEE PowerTech, Bucharest, June 28 2009-July 2 2009, Page(s):1 – 6, ISBN: 978-1-4244-2234-0, WOS:000276834600226
- Vis18.** Marcel Stanciu, **Mihaela Albu**, Anatolie Boev, **2009**, *ECG monitoring. A software tool for deriving time and frequency parameters*, Proc. of the IEEE International Workshop on Medical Measurements and Applications MEMEA 2009, pp. 116-121, Cetraro, ITALY, 29-30 May 2009, ISBN: 978-1-4244-3598-2, WOS:000274280200026

- Vis19.** Apetrei, D.; Silvas, I.; **Mihaela Albu**, Postolache, P.; Neurohr, R., **2009**, *Voltage estimation in power distribution networks. A case study on data aggregation and measurement uncertainty*, Proc. of AMUEM 2009, the IEEE International Workshop on Advanced Methods for Uncertainty Estimation in Measurement, 6-7 July Bucharest 2009 Page(s):98 – 102, ISBN: 978-1-4244-3593-7, WOS:000274329100020
- Vis20.** Aurel Chirila, Dragos Deaconu, Valentin Navrapescu, **Mihaela Albu**, **2009**, *Interactive design of electrical machines taking into account the measurement uncertainties*, Proc. of AMUEM 2009, IEEE International Workshop on Advanced Methods for Uncertainty Estimation in Measurement, 6-7 July Bucharest 2009 Page(s):89 – 92, ISBN: 978-1-4244-3593-7, WOS:000274329100018
- Vis21.** Naumof, M.; Dumitrescu, A.-M.; **Mihaela Albu**, Magureanu, R.; Flamanzeanu, D.; Odor, I., **2009**, *A study of the measurement chain in the power active filters. Uncertainty and control performances*, Proc. of AMUEM **2009**, IEEE International Workshop on Advanced Methods for Uncertainty Estimation in Measurement, 6-7 July Bucharest 2009 Page(s):103 – 108, ISBN: 978-1-4244-3593-7. WOS:000274329100021
- Vis22.** **Mihaela Albu**, **2009**, *Message from the chairman*, Proc. of AMUEM 2009, IEEE International Workshop on Advanced Methods for Uncertainty Estimation in Measurement, 6-7 July Bucharest 2009 Page(s):89 – 92, ISBN: 978-1-4244-3593-7,
- Vis23.** **Mihaela Albu**, Chicco, G.; Kyriakides, E.; Nicolaou, G.; Nechifor, A.; Chirila, A.-I.; Deaconu, I.-D., **2009**, *Development of a DC test network for monitoring power transfer*, Proc. of the I2MTC '09. IEEE Instrumentation and Measurement Technology Conference, 5-7 May 2009 Page(s):1284 – 1289, ISBN: 978-1-4244-3352-0, WOS:000277153600248
- Vis24.** **Mihaela Albu**, Ralf Neurohr, Dan Apetrei, Ioan Silvas, Dumitru Federenciuc, **2010**, *Monitoring voltage and frequency in smart distribution grids. A case study on data compression and accessibility*, Proc. of the IEEE Power Engineering Society General Meeting, Minneapolis, U.S.A., 26-29 July 2010, ISBN 978-1-4244-6549-1, pp. 1-6, WOS:000287611902166
- Vis25.** **Mihaela Albu**, Alexandru Nechifor, Doru Creanga, **2010**, *Smart Storage for Active Distribution Networks. Estimation and Measurement Solutions*, Proc. of the I2MTC '10. IEEE Instrumentation and Measurement Technology Conference, Austin, TX, 3-6 May 2010, pp. 1486-1491, ISBN: 978-1-4244-2832-8, WOS:000287997200283
- Vis26.** Apetrei, Dan; Chicco, Gianfranco; Neurohr, Ralf; **Mihaela Albu**, Postolache, Petru, **2010**, *Power quality monitoring. Data relevance and usefulness*, Proc. of the 15th IEEE Mediterranean Electrotechnical Conference MELECON 2010, Page(s): 1630 – 1635, ISBN: 978-1-4244-5793-9, WOS: 000286988200297
- Vis27.** Neurohr, Ralf; **Mihaela Albu**, Nechifor, Alexandru; et al., **2010**, *Frequency estimation in distribution grids from voltage monitoring data*, Proceedings of the 12th International Conference on Optimization of Electrical and Electronic Equipment OPTIM 2010, pp. 162-167, Brasov, Romania, May 2010, ISSN: 1842-0133, WOS:000291967300019
- Vis28.** Adrian Tulbure, Emilian Ceuca, **Mihaela Albu**, **2012**, *Standard and Customised Measurements for Wind Potential Assessment*, Proc. of the I2MTC '12. IEEE Instrumentation and Measurement Technology Conference, Graz, Austria, 7-15 May 2012, pp. 865-869, ISBN: 978-1-4577-1771-0, WOS:000309449100163
- Vis29.** M. Asprou, E. Kyriakides, **Mihaela Albu**, **2012**, *The Effect of Parameter and Measurement Uncertainties on Hybrid State Estimation*, Proc. of the IEEE Power Engineering Society General Meeting, San Diego, CA, U.S.A., 22-26 July 2012, pp. 1-8, ISBN: 978-1-4673-2729-9, WOS:000312493703105
- Vis30.** Mihai Calin, Ana Maria Dumitrescu, Markos Asprou, Elias Kyriakides, **Mihaela Albu**, **2013**, *Measurement Data Aggregation for Active Distribution Networks*, Proc. of the IEEE Applied Measurements for Power Systems Workshop AMPS2013, Aachen, 25-27 Sept. 2013, pp.144-149, ISBN: 978-1-4673-5571-1, WOS:000330569400025
- Vis31.** Markos Asprou, Elias Kyriakides, **Mihaela Albu**, **2013**, *The Effect of Instrument Transformer Accuracy Class on the WLS State Estimator Accuracy*, Proc. of the 2013 IEEE Power & Energy Society General Meeting, Vancouver, July 2013, pp.1-5, ISBN: 978-1-4799-1303-9, WOS:000331874302067

- Vis32.** Ana Maria Dumitrescu, **Mihaela Albu, 2013**, *An analysis of the harmonic controller robustness in LV active filters*, Proc. Of the 8th International Symposium on Advanced Topics in Electrical Engineering, May 23-25, 2013, Bucharest, Romania, pp.1-6, ISBN: 978-1-4673-5980-1; 978-1-4673-5979-5, WOS:000332928500170
- Vis33.** **Mihaela Albu**, Ana Maria Dumitrescu, **2014**, *Applicability of Synchronised Measurements in Modern Distribution Grids. A Discussion*, Proc. of the IEEE Applied Measurements for Power Systems Workshop AMPS2014, Aachen, 25-27 Sept. 2014, pp. 1-6, BDI IEEEExplore DOI: 10.1109/AMPS.2014.6947717 WOS:000348660600019
- Vis34.** **Mihaela Albu**, Aurelian Craciunescu, Ana Maria Dumitrescu, Valentin Boicea and Lucian Toma, **2014**, *Smart Grid topics in the UPB electrical engineering curricula*, Proc. of the 49th International Universities' Power Engineering Conference, UPEC'14, Cluj-Napoca, Romania, 3-5 Sept. 2014, pp. 1-6, BDI IEEEExplore DOI: 10.1109/UPEC.2014.6934601, WOS:000364087800012
- Vis35.** Aurelian Craciunescu, **Mihaela Albu**, Gloria Stefania Ciumbulea and Cătălina Necula Dumitrica, **2014**, *A New Graphic Evaluator of the Voltage Unbalance in Power Networks*, Proc. of the I2MTC '14. IEEE Instrumentation and Measurement Technology Conference, Montevideo, Uruguay, 13-15 May 2014, pp. 1230-1234, BDI IEEEExplore DOI: 10.1109/I2MTC.2014.6860940 WOS:000346477200241
- Vis36.** **Mihaela Albu, 2014**, *Dual Data Aggregation for Power Quality Assessment*, Proc. of the I2MTC '14. IEEE Instrumentation and Measurement Technology Conference, Montevideo, Uruguay, 13-15 May 2014, pp. 620-624, BDI IEEEExplore DOI: 10.1109/I2MTC.2014.6860818 WOS:000346477200120
- Vis37.** **Mihaela Albu**, Ana Maria Dumitrescu and Roxana Popovici, **2014**, *Rate of Change of Frequency - a Power Quality Descriptor*, Proc. of IEEE 16th International Conference on Harmonics and Quality of Power (ICHQP 2014, Bucharest, Romania, pp. 312 – 316, May 2014, BDI IEEEExplore DOI: 10.1109/ICHQP.2014.6842900 WOS:000343776100065
- Vis38.** Ana-Maria Dumitrescu, **Mihaela Albu, 2015**, *Deriving Model Approximations in Emerging Distribution Grids*, Proc. of the ATEE 2015, the 9th International Symposium on Advanced Topics in Electrical Engineering, May 7-9, 2015, Bucharest, Romania, pp. 525-530, BDI IEEEExplore, DOI 10.1109/ATEE.2015.7133864, WOS:000368159800099
- Vis39.** Ana Ruxandra Toma, Ana-Maria Dumitrescu, **Mihaela Albu, 2015**, *Assessment of rapid voltage changes using PMU data*, Proc. of the IEEE Applied Measurements for Power Systems Workshop AMPS 2015, Aachen, Sept. 2015, pp. 126-131, BDI IEEEExplore, WOS: 00368159800099
- Vis40.** Mihai Sanduleac, **Mihaela Albu**, Joao Martins, M^a Dolores Alacreu, Carmen Stanescu, **2015**, *Power Quality Assessment in LV networks using new Smart Meters design*, Proc. of the CPE 2015, Lisbon, June 2015, BDI IEEEExplore, DOI: 10.1109/CPE.2015.7231057, WOS:000380468800016
- Vis41.** Mihai Sanduleac, Lucas Pons, Giampaolo Fiorentino, Rares Pop, **Mihaela Albu, 2016**, *The unbundled Smart Meter concept in a synchro-SCADA framework*, Proc. of I2MTC2016, the IEEE International Instrumentation and Measurement Technology Conference, 23-26 May 2016, Taipei, BDI IEEEExplore, IEEE Catalog Number: CFP16IMT-ART, ISBN: 978-1-4673-9220-4, WOS: 000382523600133
- Vis42.** Markos Asprou, Ana-Maria Dumitrescu, Elias Kyriakides, **Mihaela Albu, 2016**, *The Impact of PMU Measurement Delays and a Heterogenous Communication Network on a Linear State Estimator*, Proc. of the 18th Mediterranean Electrotechnical Conference – MELECON 2016, Limassol, 18-20 April 2016, BDI IEEEExplore, IEEE Catalog Number: CFP16MEL-USB, ISBN: 978-1-5090-0057-9, WOS: 000390719500037
- Vis 43.** Ana Ruxandra Toma, Ana Maria Dumitrescu, **Mihaela Albu, 2016**, *Impact of measurement set-up on RVC-like event detection*, Proc. of I2MTC2016, the IEEE International Instrumentation and Measurement Technology Conference, 23-26 May 2016, Taipei, BDI IEEEExplore, IEEE Catalog Number: CFP16IMT-ART, ISBN: 978-1-4673-9220-4, WOS: 000382523600134
- Vis44.** Markos Asprou, Elias Kyriakides, **Mihaela Albu, 2016**, *Bad Data Detection Considering the Accuracy of Instrument Transformers*, Proc. of the 2016 IEEE Power & Energy Society General Meeting, Vancouver, July 2016, BDI IEEEExplore, DOI: 10.1109/PESGM.2016.7741653, pp. 1-6, 2016, WOS: 000399937902053

- Vis45.** H. Kirkham, **Mihaela Albu**, 2017, *Measurement, Nyquist and Shannon: A view of PMU metrology*, Proc. of 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest May 2017, pp. 23-27, DOI: 10.1109/ATEE.2017.7905142, WOS: 000403399400006
- Vis46.** Viorel Petre, **Mihaela Albu**, 2017, *An example of enhancing the teaching process in power engineering*, Proc. of 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest May 2017, pp. 51-56, DOI: 10.1109/ATEE.2017.7905189, WOS: 000403399400011
- Vis47.** Mihai Sănduleac; Ana-Maria Dumitrescu; Lucian Toma; Carmen Stănescu, **Mihaela Albu**, 2017, *On the frequency measurement in Wide Area Measurement and Control Systems*, Proc. of 2017 10th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest May 2017, pp. 569 – 572, DOI: 10.1109/ATEE.2017.7905073, WOS: 000403399400111
- Vis48.** Mihai Sanduleac; Lucian Toma; Constantin Bulac; Mircea Eremia; Nicolae Golovanov; Radu Porumb; **Mihaela Albu**; Stefan Gheorghe; Catalin Chimirel, 2017, *Energy storage for reaching 100% CO₂ free and 100% RES — preliminary case study for Romania*, Proc. 2017 International Conference on Energy and Environment (CIEM), Bucharest, 2017, pp. 16-20, DOI: 10.1109/CIEM.2017.8120771, WOS 427610300004
- Vis49.** Markos Asprou; Elias Kyriakides; **Mihaela Albu**, 2017, *The effect of PMU measurement chain quality on line parameter calculation*, Proc. of 2017 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), WOS: 431839600107
- Vis50.** Mihai Sanduleac; Lucian Toma; Gianfranco Chicco; **Mihaela Albu**, 2017, *Network code on requirements for generators — A discussion. Resynchronizing with paradigm shifts*, Proc. of 2017 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), WOS: 428016500235
- Vis51.** Ciornei, Irina; **Albu, Mihaela**; Sanduleac, Mihai; Lenos Hadjidemetriou, Elias Kyriakides, 2017, *Analytical derivation of PQ indicators compatible with control strategies for DC microgrids*, Proc. of 2017 IEEE Manchester Powertech, WOS: 411142500386
- Vis52.** Stanescu, Carmen; Stanescu, Dorel; **Albu, Mihaela**; et al., 2017, *Meter Accuracy in Renewable Energy Sources-based Prosumer Nodes*, Proc. of 7th International Conference on Modern Power Systems (MPS) , WOS: 428462600013
- Vis53.** Mihai Sanduleac, **Mihaela Albu**, Lucian Toma, João Martins, Anabela Gonçalves Pronto, Vasco Delgado-Gomes, 2017, *Hybrid AC and DC Smart home resilient Architecture Transforming prosumers in UniRCons* – Proc. of ICE 2017 IEEE TMC Europe Conference, July 2017, WOS: 464318300210
- Vis54.** Irina Ciornei, **Mihaela Albu**, Mihai Sanduleac, Andres Felipe Martinez Palomino, 2017, *Power flow formulation for LVDC microgrids with nonlinear load models*, Proc. of 2017 IEEE Second International Conference on DC Microgrids (ICDCM), 27-29 June 2017, Nuernberg, DE, pp. 445-451, DOI: 10.1109/ICDCM.2017.8001083, WOS: 426893200070
- Vis55.** Irina Ciornei, **Mihaela Albu**, Mihai Sanduleac, Enrique Rodriguez-Diaz, Remus Teodorescu, Josep M. Guerrero, 2018, *Adaptive Distributed EMS for Small Clusters of Resilient LVDC Microgrids*, Proc. of the 18th IEEEIC International Conference on Environment and Electrical Engineering, Palermo, June 2018, WOS: 450163702143
- Vis57.** Irina Ciornei, **Mihaela Albu**, Mihai Sanduleac, Enrique Rodriguez-Diaz, Josep M. Guerrero, Juan C. Vasquez, 2018, *Real-time optimal scheduling for prosumers resilient to regulatory changes*, Proc. of the 2018 IEEE International Energy Conference (ENERGYCON), Limassol, CYPRUS, Jun 03-07, 2018, WOS:000465417100055
- Vis58.** Kirkham, H.; **Mihaela Albu**, M. Engels, G. Frigo, A. Hedayatipour, D. Laverty, A. von Meier, A. Riepnies, D.R. White, Z. M. Yang, 2018, *Teaching Measurement Fundamentals*, Proc. of the IEEE 59th International Scientific Conference on Power and Electrical Engineering of Riga-Technical-University (RTUCON), Riga, LATVIA, Nov 12-13, 2018, WOS:000463163000095;
- Vis59.** H. Nicorescu, M. Eremia, **Mihaela Albu**, 2019, *On the Impact of Winding Selection of Current Instrument Transformers for PMU Measurements*, Proc. of 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), March 2019, Bucharest, Romania, WOS:000475904500061;
- Vis60.** R. Plamanescu, S. Gheorghe, M. Sarb, A. Istenes, **Mihaela Albu**, 2019, *A Synchronized Measurements Firmware*

- Platform for Smart Grid Applications*, Proc. of 2019 11th International Symposium on Advanced Topics in Electrical Engineering (ATEE), March 2019, Bucharest, Romania, WOS:000475904500054;
- Vis61.** Harold Kirkham; Rod White; **Mihaela Albu, 2019**, Dealing with Definitional Uncertainty Better Measurements in Power Systems, Proc. of the 2019 IEEE 10th International Workshop on Applied Measurements for Power Systems (AMPS), Aachen, 2019, WOS:
- Vis62.** R. Plamanescu, **M. Albu**, S. Gheorghe, S. Bugnar and M. Coroiu, **2019**, "PMU Cloud-based Applications for Power Systems Insight," 2019 54th International Universities Power Engineering Conference (UPEC), Bucharest, Romania, 2019, pp. 1-5, doi: 10.1109/UPEC.2019.8893631, WOS:000619338200160.
- Vis63.** Markos Asprou, Elias Kyriakides, **Mihaela Albu, 2019**, *Bounds of Estimated States Based on-line Parameter Uncertainties*, Proc. of the 54th International Universities Power Engineering Conference (UPEC), Bucharest, Romania, 2019. WOS:000619338200138
- Vis64.** Hariss Nicorescu; Mircea Eremia, **Mihaela Albu, 2019**, *On the Impact of Winding Selection of Current Instrument Transformers for PMU Measurements*, Proc. of the 8th IEEE International Conference on Modern Power Systems (MPS), Cluj, 2019, WOS:000475904500061
- Vis65.** Mihai Sanduleac; **Mihaela Albu**; Dorel Stanesu; Carmen Stanesu, **2019**, *Prosumers optimally adapted to local load. Rationale and benefits for the grid*, Proc. of the 8th IEEE International Conference on Modern Power Systems (MPS), Cluj, 2019, WOS:000612401900029
- Vis66.** Lucian Toma; Mihai Sanduleac; Dorian-Octavian Sidea; Carmen Stanesu; Ciprian Diaconu; **Mihaela Albu**; Ana-Maria Dumitrescu, **2020**, *Frequency Dynamics in the Romanian Power System under Large Perturbations*, Proc. of the 55th International Universities Power Engineering Conference (UPEC), Torino, 2020, WOS:000627771000122
- Vis67.** R. Plamanescu, A. -M. Dumitrescu, **M. Albu** and S. Suryanarayanan, **2020**, "Monitoring LV Prosumers Operation Using Hilbert - Huang Method," 2020 55th International Universities Power Engineering Conference (UPEC), Torino, Italy, 2020, pp. 1-6, doi: 10.1109/UPEC49904.2020.9209770, WOS:000627771000013.
- Vis68.** C. M. Gheorghe, A. -M. Dumitrescu, A. R. Toma and **M. Albu, 2021**, "Impact of Transitioning to Online Teaching on Learning Achievement as Perceived by Students," 2021 12th International Symposium on Advanced Topics in Electrical Engineering (ATEE), 2021, pp. 1-6, doi: 10.1109/ATEE52255.2021.9425322, WOS:000676164800154
- Vis69.** Stamatescu, Grigore, Ciornei, Irina, Plamanescu Radu, Dumitrescu Ana Maria, **Albu, Mihaela, 2021**, *Reporting Interval Impact on Deep Residential Energy Measurement Prediction*, Proc. of 9th IEEE Applied Measurements for Power Systems AMPS2021, WOS:000783741700014
- Vis70.** G. Stamatescu, R. Plamanescu, I. Ciornei and **Albu, Mihaela, 2022**, *Detection of Anomalies in Power Profiles using Data Analytics*, 2022 IEEE 12th International Workshop on Applied Measurements for Power Systems (AMPS2022), Cagliari, Italy, 2022, pp. 1-6, doi: 10.1109/AMPS55790.2022.9978833.
- Vis71.** C. M. Gheorghe, A. -M. Dumitrescu, R. Plămănescu and **M. Albu, 2023**, "Predictors of Satisfaction, Motivation, and Learning Engagement for Engineering Students," 2023 13th International Symposium on Advanced Topics in Electrical Engineering (ATEE), Bucharest, Romania, 2023, pp. 1-6, doi: 10.1109/ATEE58038.2023.10108252.
- Vis72.** R. Plamanescu, R. Opreanu, E. Fiorentis, V. Boicea, A. -M. Dumitrescu and **M. Albu, 2023**, "Next Generation RES-based student residence. A case study," 2023 10th International Conference on Modern Power Systems (MPS), Cluj-Napoca, Romania, 2023, pp. 1-6, doi: 10.1109/MPS58874.2023.10187507.
- Vis73.** A. P. Brîncoveanu, E. Fiorentis, A. -M. Dumitrescu and **M. Albu, 2023**, "Signal Model Adequacy Indicator for Measurements in LV Grids," 2023 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Kuala Lumpur, Malaysia, 2023, pp. 1-6, doi: 10.1109/I2MTC53148.2023.10175891.
- Vis74.** R. Plamanescu, C. Deaconescu, G. Stamatescu and **M. Albu, 2023**, "High-Reporting Rate Smart Metering Framework using FIWARE Technology," 2023 IEEE Intern. Instr. and Measurement Technology Conf. (I2MTC), Kuala Lumpur, Malaysia, 2023, pp. 1-6, doi: 10.1109/I2MTC53148.2023.10175963.

A2.2. Papers in journals and Conference Proceedings indexed in international database – [mostly IEEEExplore]:

- Rbdi1.** Carmen Golovanov, Daniela Urma, **Mihaela Albu**, D. Ioan, **2002**, *Magnetically induced currents in a three-dimensional human body model*, in Int. Journal of Applied Electromagnetics and Mechanics 51 to 88, Vol. 14, Nr. 1-4/2001-2002, pp. 365 – 368, ISBN: 9781586033286, BDI Scopus
- Rbdi2.** Marnay, C. ; Kroposki, B. ; Mao, M. ; Xu, H. ; Chong, A. ; Chung, S. ; Hara, R. ; Ise, T. ; Iravani, R. ; Katiraei, F. ; **Albu, M.** ; Hatziaargyriou, N. ; Funabashi, T. ; Reilly, J. ; Driesen, J. ; Jimenez, G. ; Vallve, X., **2015**, The Tianjin 2014 Symposium on Microgrids: A meeting of the minds for international microgrid experts, IEEE Electrification Magazine, Vol. 3, Issue: 1, DOI: , pp. 79- 85, ISSN: 2325-5897
- Rbdi3.** CIGRE TB 826 Hybrid Systems for Off-Grid Power Supply, Jan. **2021**, Members WG. C6.28: B. Buchholz, Convener De, P. Chusovitin, Secretary Ru, H. Bitaraf Us, M. Ross Ca, J. Glassmire Us, H. Farag Ca, J.C. Smith Us, R. Seethapathy Ca, **M. Albu** Ro ,K. Ash Au, M. Brucoli Uk, P.H.R.P. Gama Br, T. Funabashi Jp, P. Kotsampopoulos Gr, K. Yukita Jp, S. Tselepis Gr, A. Zomers† Nl, Corresponding Members H. Farhangi Ca, E. Silva Br, N. Luib De, J. Aderaldo Lopes Br, C. Marnay Us, P. Lopes Cavalcante B
- Rbdi4.** Antonello Monti; Alberto Dognini; Maliheh Haghighi; Thomas Storek; Dirk Muller; Radu Plamanescu; Ulrike Rahe, **Mihaela Marilena ALBU; 2021**, *A cloud-based service-oriented architecture to unlock smart energy services*, Energy Informatics, 4, 50, 20, Springer, 2021-06-16
- Vbdi1.** E. Holbert, **Mihaela Albu**, **2003**, *A Signal Processing Laboratory Employing On-Line Teaming for Remote Experiments*, 2003 American Society for Engineering Education Annual Conference & Exposition, Nashville, TN, June 2003, BDI Scopus,
http://www.ni.com/pdf/academic/us/journals/A_signal_processing.pdf
- Vbdi2.** **Mihaela Albu**, Aurel-Ionuț Chirilă, Ioan-Dragoș Deaconu, **2007**, *On the Model of a Compact Fluorescent Lamp as Load of a Mixed LV Network*, Proc. of Eurosime Congress, Ljubljana, Sept. 2007, ISBN-13: 978-3-901608-32-2, BDI Google Scholar,
- Vbdi3.** D. Apetrei, P. Postolache, N Golovanov, **Mihaela Albu**, G. Chicco, **2009**, *Hierarchical Cluster Classification of low Voltage half cycle measurements treated as method to discriminate local from network events*, Proc. of the Int. Conf. on Renewable Energies and Power Quality (ICREPQ'09), Valencia (Spain), 15-17 April, 2009, BDI Google Scholar, DOI 10.1109/PTC.2009.5281799,
- Vbdi4.** Van, T. Vu; Visscher, K.; Diaz, J.; Karapanos, V.; Woyte, A.; **Mihaela Albu**, Bozelie, J.; Loix, T.; Federenciu, D., **2010**, *Virtual synchronous generator: An element of future grids*, Proc. of 2010 IEEE PES Innovative Smart Grid Technologies Conference Europe (ISGT Europe), Gothenburg, 11-13 Sept. 2010, ISBN: 978-1-4244-8508-6, BDI IEEEExplore, DOI 10.1109/ISGTEUROPE.2010.5638946
- Vbdi5.** **Mihaela Albu**, Gerald T. Heydt, Sergiu Cosmescu, **2010**, *Versatile Platforms for Wide Area Synchronous Measurements in Power Distribution Systems*, Proc. of North American Power Symposium NAPS 2010, Arlington, TX, 26-28 Sept. 2010, ISBN: 978-1-4244-8046-3, BDI Scopus
- Vbdi6.** **Mihaela Albu**, Doru Creanga, Alexandru Nechifor, Mihail Popa, Elias Kyriakides; Catalin Caciuleanu, **2010**, *A Laboratory-scale DC microgrid. Layout and Functionality*, Proc. of SATEE 2010, Conf. on Smart Applications and Technologies for Electronic Engineering, Alba Iulia, 9-11 Sept. 2010, BDI Google Scholar
- Vbdi7.** **Mihaela Albu**, J. Diaz, V. Thong, R. Neurohr, D. Federenciu, M. Popa, M. Calin, **2010**, *Measurement and Remote Monitoring for Virtual Synchronous Generator Design*, Proc. of the International Workshop for Applied Measurements for Power Systems, AMPS2010, Aachen, 22-24 Sept. 2010, ISBN 978-1-4244-7372-4, BDI IEEEExplore, DOI 10.1109/AMPS.2010.5609328,
- Vbdi8.** Dan Apetrei, Gianfranco Chicco, Ralf Neurohr, **Mihaela Albu**, Petru Postolache, Ioan Silvas, **2010**, *Voltage and Frequency time series analysis. Improvements in transforming data from quality survey into information*, Proc. of 9th Int. Conf. on Environment and Electrical Engineering (EEEIC), Praga, 16-19 may 2010, ISBN: 978-1-4244-5370-2, BDI Scopus
- Vbdi9.** Dan Apetrei, Ralf Neurohr, **Mihaela Albu**, Valentin Rascanu, Petru Postolache, Nicolae Golovanov, Ioan Silvas, **2010**, *Using software agents to improve functionality of the power quality management software*

- system, Proc. of the Int. Conf. on Renewable Energies and Power Quality (ICREPQ'11), Granada, Spain, 23-25 March 2010, BDI Google Scholar, <http://www.icrepq.com/icrepq'10/453-Apetrei.pdf>,
- Vbdi10. Mihaela Albu**, E. Kyriakides, A. Dumitrescu, I. Mangeac Florea, **2011**, *Analysis of Distribution Grids: State Estimation using Model Uncertainties*, Proc. of IEEE AMPS2011, Aachen, 28-30 Sept. 2011, ISBN 978-1-61284-946-1, BDI IEEEExplore, DOI: 10.1109/AMPS.2011.6090439,
- Vbdi11. Mihaela Albu**, M. Calin, D. Federenciu, J. Diaz, **2011**, *The Measurement Layer of the Virtual Synchronous Generator Operation in the Field Test*, Proc. of IEEE AMPS2011, Aachen, 28-30 Sept. 2011, ISBN 978-1-61284-946-1, BDI IEEEExplore, DOI 10.1109/AMPS.2011.6090438
- Vbdi12.** M. Popa, **Mihaela Albu**, **2011**, *Implementation overview of PMU functionalities on x86 platform*, Proc. of IEEE SMFG, Bologna, 14-16 Nov. 2011, ISBN 978-1-4577-1313-2, BDI IEEEExplore, DOI 10.1109/SMFG.2011.6125780
- Vbdi13. Mihaela Albu**, A.V. Boicea, M. Calin, M. Popa, **2011**, *Emerging smart grid topics in electrical engineering education*, Proc. of PowerTech 2011, Trondheim, 19-23 June 2011, ISBN 978-1-4244-8419-5, BDI IEEEExplore, DOI 10.1109/PTC.2011.6019383,
- Vbdi14.** D. Apetrei, **Mihaela Albu**, I. Silvas, D. Federenciu, M. Vanatoru, **2011**, *Electrica's AMI Strategy Updates*, Proc. of CIRED **2011**, Frankfurt, 6-9 June 2011, BDI Google Scholar, http://www.cired.net/publications/cired2011/part1/papers/CIRED2011_0313_final.pdf
- Vbdi15.** D. Apetrei, I. Silvas, **Mihaela Albu**, P. Postolache, **2011**, *Consideration on relationship between Load Dispatching and Load Profile Clustering. Case Study on Romanian Market*, Proc. of IEEEIC, Rome, May 2011, ISBN 978-1-4244-8779-0, BDI IEEEExplore, DOI 10.1109/IEEEIC.2011.5874643
- Vbdi16. Mihaela Albu**, V. Boicea, **2012**, *Identification of Grid Model Parameters using Synchrophasor Measurements*, Proc. of the VDE SmartGrid Kongress Stuttgart, November 2012, BDI Google Scholar: <https://www.vde-verlag.de/proceedings-en/453446136.html>
- Vbdi17.** Ana Maria Dumitrescu, **Mihaela Albu**, **2012**, *Robustness against measurement component for controllers in LV active filter*, Proc. of IEEE Applied Measurements for Power Systems AMPS2012, Aachen, 26-28 Sept. 2012, ISBN 978-1-4673-1540-, BDI IEEEExplore, DOI: 10.1109/AMPS.2012.6344014
- Vbdi18.** Ana-Maria Dumitrescu, Răzvan Roman, **Mihaela Albu**, **2015**, *Synchronized measurements and power quality assessment*, Proc. of IEEE PowerTech, Eindhoven, June 2015, BDI IEEEExplore, DOI: 10.1109/PTC.2015.7232815
- Vbdi19.** Ion Dobre, Niculai Stanciu, Dorel Stănescu, **Mihaela Albu**, **2015**, *Islanding Effects in Distribution Networks – A Case Study*, Proc. of CIRED 2015, 23rd International Conference on Electricity Distribution, Lyon, 15-18 June 2015, BDI IEEEExplore, DOI 10.1109/ATEE.2015.7133864
- Vbdi20.** Dorel Stănescu; Dumitru Federenciu; **Marilena Albu**; Stefan Gheorghe; Doina Ilisiu; Carmen Stănescu, **2017**, *Performance standards applied to Romanian TSO and DSO*, CIRED - Open Access Proceedings Journal, vol. 2017, issue 1, pp. 796-799
- Vbdi21.** H. Kirkham; A. Riepnies; **M. Albu**; D. Laverty, **2018**, *The nature of measurement, and the true value of a measured quantity*, Proc. of 2018 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Houston, TX, DOI: 10.1109/I2MTC.2018.8409771
- Vbdi22.** G. M. Cornea, I. C. Constantin, **M. Albu**, **2018**, *Real time estimation of OHL electrical parameters from PMU data*, Proc. of RSEEC 2018, Bucharest, October 2018.
- Vbdi23.** Raphaël Rinaldi, Ilaria Losa, Michel De Nigris, Ricardo Prata, **Mihaela Albu**, et al., **2019**, *ETIP-SNET Vision 2050 – Integrating Smart Networks For The Energy Transition*, CIRED 2019 - Open Access Proceedings Journal, vol. 2019, paper 175

- Vbdi24.** Harold Kirkham; Alexander Emanuel; **Mihaela Albu**; David Laverty, **2019**, *Resolving the reactive power question*, Proc. of the 2019 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Auckland, 2019.
- Vbdi25.** Mihai Sanduleac; **Mihaela Albu**; Dorel Stanesco; Carmen Stanesco, **2019**, *Grid Storage in LV Networks – An Appropriate Solution to Avoid Network Limitations in High RES Scenarios*, Proc. of the IEEE 2019 International Conference on Electromechanical and Energy Systems (SIELMEN)
- Vbdi26.** L. Toma, M. Sanduleac, **M. Albu**, C. Diaconu, C. Stanesco, **2020**, *Frequency analysis in the Romanian power system under major grid disturbances*, Proc. of the CIGRE Session 48, C4 – Power System Technical Performance PS2 / Modelling of the Future Grid Based on Lessons Learned from System Events, Paris, August 2020
- Vbdi27.** M. Haghighi, A. Dognini, T. Storek, R. Plamanescu, U. Rahe, S. Gheorghe, **M. Albu**, A. Monti and M. Dirk, **2020**, “Open Smart Energy Eco-System for the Future”, IOP Conference Series: Earth and Environmental Science, Volume 588, Issue 2, 20 November 2020, Article number 022048.
- Vbdi28.** Grigore Stamatescu; Radu Plamanescu; Ana-Maria Dumitrescu; Irina Ciomei; **Mihaela Albu**, **2022**, *Multiscale Data Analytics for Residential Active Power Measurements through Time Series Data Mining*, Proc. of 2022 IEEE 7th International Energy Conference (ENERGYCON), DOI: 10.1109/ENERGYCON53164.2022.9830170
- Vbdi29.** Gunnar KAESTLE, Haoyuan WANG, Shiyu LIU, **Mihaela ALBU**, **2022**, *Self-regulation of dispatchable loads in resilient power systems*, CIRED 2022 Shanghai Workshop - [Open Access Proceedings Journal](#), vol. 2022, paper 111

A2.3. Other

- Rio1.** **Mihaela Albu**, **2010**, *Membership notes*, IEEE Instrumentation & Measurement Magazine Vol.13 Issue 5, pp. 56-57, October 2010, ISSN: 1094-6969, impact factor 0.556,
- Rio2.** **Mihaela Albu**, **2010**, *Membership notes*, IEEE Instrumentation & Measurement Magazine Vol.13 Issue 4, pp. 56-57, August 2010, ISSN: 1094-6969, impact factor 0.556,
- Rio3.** **Mihaela Albu**, **2010**, *Membership notes*, IEEE Instrumentation & Measurement Magazine Vol.13 Issue 3, pp. 53, June 2010, ISSN: 1094-6969, impact factor 0.556,
- Rio4.** Lorenzo Peretto, **Mihaela Albu**, Alessandro Ferrero, **2011**, *How Should Measurement Uncertainties Be Expressed in a Smart Grid Scenario?* in IEEE SmartGrid Newsletters, April 2011, available online at <http://smartgrid.ieee.org/april-2011/90-how-should-measurement-uncertainties-be-expressed-in-a-smart-grid-scenario>
- Rio5.** Lucian Toma, **Mihaela Albu**, Radu Porumb, **2011**, *Romania in IEEE Smart Grid Public Policy*, April 2011, available online at <http://smartgrid.ieee.org/resources/public-policy/romania>
- Rio6.** S. Renner, **Mihaela Albu**, s.a., **2012**, *European Smart Metering Landscape Report*, available from the SMART REGIONS project: Promoting smart metering best practices in EU, www.smartregions.net, Febr. 2011(1st ed), Sept. 2012 (2nd ed.)
- Rio7.** Lucian Toma, Dumitru Popescu, **Mihaela Albu**, Constantin Bulac, Ion Necoara, **2014**, *A two-vector energy independent microgrid at University “Politehnica” of Bucharest*, Tianjin Symposium on Microgrids 2014
- Rio8.** Markos Asprou, Elias Kyriakides, and **Mihaela Albu**, **2014**, *On the Measurement Chain in Hybrid State Estimation*, in IEEE SmartGrid Newsletters, July 2014, available online at <http://smartgrid.ieee.org/>
- Rio9.** **Mihaela Albu**, **2015**, *IMS TC-39 and cross-societies initiatives: The IEEE smartgrid*, IEEE Instrumentation & Measurement Magazine, Vol. 18, Issue 1, DOI: 10.1109/MIM.2015.7016683, p. 47

- Rns1.** Constantin Iliescu, Constantin Vlaicu, Sorin Dan Grigorescu, **Mihaela Albu**, 1996, *Signal transmission from the power system by optical fibers using analog-digital conversion*, Buletinul Stiintific UPB, series C, vol. 57-58, 1995-1996, nr. 1-4, pg. 163-170 ISSN 1454-234x (CNCSIS B+)
- Rns2.** Arie Arie, Constantin Vlaicu, **Mihaela Albu**, 1996, *Aplicații ale funcțiilor Walsh în rezolvarea circuitelor electrice*, in: EEA -Electrotehnica, Electronica și Automatica, vol. 44, nr.3-4, mart-apr 1996, pag. 31-35, ISSN 1582-5175 (CNCSIS B+)
- Rns3.** Constantin Vlaicu, Sorin Grigorescu, **Mihaela Albu**, Constantin Cepișcă, 1997, *Measurement System for Power Transformer Diagnosis Based on Frequency Characteristics Analysis*, Buletinul Stiintific UPB, series C, vol. 59, 1997, nr. 1-4, pg. 191-194 ISSN 1454-234x (CNCSIS B+)
- Rns4.** **Mihaela Albu**, Petru Postolache, Catalin Dumitriu, 1998, *An Educational-purpose Simulink Model of Saturated Current Transformers*, Buletinul Stiintific UPB, series C, vol. 60, 1998, nr. 3-4, pg. 37-44 ISSN 1454-234x (CNCSIS B+)
- Rns5.** **Mihaela Albu**, Petru Postolache, Wim Kersten, 1998, *On the Application of Time-Frequency Analysis to Power System Transients*, Buletinul Stiintific UPB, series C, vol. 60, 1998, nr. 3-4, pg. 67-82 ISSN 1454-234x (CNCSIS B+)
- Rns6.** **Mihaela Albu**, Richard Michel, Valentin Cotarta, 1999, *Sur la mise en oeuvre des algorithmes d'optimisation dans la version 2 d'OPTIM*, Buletinul Stiintific UPB, series C, vol. 61, 1999, nr. 1-2, pg. 637-644 ISSN 1454-234x (CNCSIS B+)
- Rns7.** Cătălin Buiu, **Mihaela Albu**, Ioan Dumitrache, Denis Gillet, 2000, *Advanced Technologies for Remote Experimentation*, Buletinul Stiintific UPB, series C, vol. 63, 2000, nr. 1, pp. 76-83 ISSN 1454-234x (CNCSIS B+)
- Rns8.** **Mihaela Albu**, 2000, *On Impedance Definitions*, Buletinul Stiintific UPB, seria C, vol. 62, 2000, nr. 4, pp. 79-86 ISSN 1454-234x (CNCSIS B+)
- Rns9.** **Mihaela Albu**, 2000, *Fault Calculations for Minimal Protection Systems in Meshed Operated Distribution Networks*, EEA -Electrotehnica, Electronica și Automatica, vol. 48, 2000, pp.35-36, ISSN: 1582-5175 (CNCSIS B+)
- Rns10.** Daniela Urmă, **Mihaela Albu**, M.Stanciu, 2001, *Magnetic field measurements in specific electrical environments*, în Buletinul Stiintific UPB, nr.2, seria C, 2001, vol.63, pg. 47-56 ISSN 1454-234x (CNCSIS B+)
- Rns11.** Golovanov C., Urma D., **Mihaela Albu**, Oancea C.D., Mihai F., 2002, *Magnetic field environment in an electrical laboratory*, Buletin Stiintific UPB, seria C, 2002, nr. 1, pag.10-12 ISSN 1454-234x (CNCSIS B+)
- Rns12.** **Mihaela Albu**, 2002, *Aspecte privind localizarea consumatorilor deformanți și nesimetrice*, Energetica vol. 50 nr. 5, 2002, pp. 216-220, ISSN 1453-2360 (CNCSIS B+)
- Rns13.** **Mihaela Albu**, 2004, *Goluri de tensiune. Caracteristici, tehnici de monitorizare si definirea unui indice de calitate a serviciului de furnizare a energiei electrice*, Energetica vol. 52 nr. 2, 2004, pp.68-75, ISSN 1453-2360 (CNCSIS B+)
- Rns14.** Răzvan-Ionel Roman, Ana-Maria Dumitrescu, **Mihaela Albu**, 2014, *Aspecte ale modului de raportare în procesul de monitorizare a calității energiei electrice*, Energetica vol. 62 nr. 6, 2014, pp. 232-236, ISSN 1453-2360 (CNCSIS B+)
- Rns15.** Mihai Călin, Mihail Popa, Dumitru Federenciuc, **Mihaela Albu**, 2014, *Static Converters for Active Distribution Grid. Frequency Control Field Test*, Buletinul Stiintific UPB, seria C, 2014, in print; ISSN 1454-234x, (CNCSIS B+)
- Rns16.** Mihai Sănduleac, Ana-Maria Dumitrescu, **Mihaela Albu**, Rareș Pop, 2015, *Contorizarea inteligentă – două inițiative recente cu participare românească: proiectele Nobel Grid si Flexmeter*, Energetica, ISSN 1453-2360, (CNCSIS B+)
- Rns17.** Ana-Maria Dumitrescu, **Mihaela Albu**, 2015, *Discuție privind aplicabilitatea măsurărilor sincronizate în rețelele moderne de distribuție*, Energetica, ISSN 1453-2360, (CNCSIS B+)

- Vi1.** **Mihaela Albu**, Carmen Golovanov, I. Lungu, V. Stan, **2000**, *On the Characterization of Instrument Transformers Behavior in Frequency Domain*, in Proceedings of PowersystemsWorld /Power Quality Conference, Boston, oct. 2000, pp. 1487-1496
- Vi2.** **Mihaela Albu**, P. Postolache, Carmen Golovanov, **2001**, *On the Limits of a Linear Approach in Power Systems Modelling and Simulation*, Proc. of the 4th Int. EUROSIM 2001 Congress, Shaping Future with Simulation, 26-29 June 2001, Delft, the Netherlands, ISBN: 90-806441-1-0.
- Vi3.** C. Buiu, **Mihaela Albu**, I. Dumitrache, D. Gillet, **2001**, *Remote Automatic Control via Internet*, Proc. of the 13th International Conference on Control Systems and Computer Science, CSCS13 Bucharest, 31 May-2 June 2001, pp.105-108.
- Vi4.** C. Buiu, **Mihaela Albu**, **2001**, *Modelling Complex Behaviors for Autonomous Robots*, Proc. of the 13th International Conference on Control Systems and Computer Science, CSCS13 Bucharest, 31 May-2 June 2001, pp.214-219.
- Vi5.** D. Urmă, C. Golovanov, **Mihaela Albu**, **2001**, *Magnetic Field Investigation in the Neighborhood of Overhead Electrical Lines*, in Proc. of the 3rd Japan Romania Joint seminar on Applied Electromagnetics and Mechanical Systems, September, 11-15, 2001, Oradea, Romania, pp.276-281.
- Vi6.** **Mihaela Albu**, Florin Mihai, C. Buiu, D. Gillet, **2001**, *Enhancing Virtual Control Laboratories Using Software Agents*, in Proc. of IBCE 2001, Internet Based Control Education Symposium, Madrid, 12-14 December 2001, pp.47-52, ISBN 0-08-043984-5.
- Vi7.** **Mihaela Albu**, C. Buiu, C. Golovanov, A. Ferrero, **2001**, *Advanced Educational Technologies for Power Quality Monitoring*, in Proc. of Power Quality 2001, Powersystems World, Rosemont, IL, 11-13 September 2001, pp.237-243
- Vi8.** **Mihaela Albu**, C. Vlaicu, C. Golovanov, C. Iosof, **2001**, *Some Aspects of Power Quality Analysis*, in Proc. of Power Quality 2001, Powersystems World, Rosemont, IL, 11-13 September 2001, pp.141-147,
- Vi9.** C. Vlaicu, **Mihaela Albu**, S. Grigorescu, C. Oancea, F. Mihai, **2001**, *Multimedia Facilities Used in the University Computer-Aided Laboratory*, in Proc. of the International Metrology Conference, Bucharest 18-20 Sept. 2001, pp. 61-66.
- Vi10.** S. Grigorescu, Vasile Trusca, C. Vlaicu, **Mihaela Albu**, **2001**, *Computer Controlled Partial Discharge Test Equipment*, in Proc. of the International Metrology Conf., Bucharest 18-20 Sept. 2001, pp. 419-422.
- Vi11.** C. Golovanov, D. Urmă, **Mihaela Albu**, D. Ioan, **2001**, *Magnetically Induced Currents in a Three-dimensional Human Body Model*, in Proc. of the 10th Int. Symp. on Applied Electromagnetics and Mechanics, May, 13-16, 2001, Tokyo, Japan, pp.415-416.
- Vi12.** G.T. Heydt, R. Thallam, **Mihaela Albu**, **2003**, *Some Comments on Power Acceptability Curves*, Caribbean Colloquium on Power Quality (CCPQ), June 24-27, 2003, Dorado, Puerto Rico (on CD-ROM).
- Vi13.** **Mihaela Albu**, K. E. Holbert, F. Mihai, **2003**, *Online Experimentation and Simulation in a Signal Processing Virtual Laboratory*, Proc. of ICEE 2003 (International Conference on Engineering Education), 22-27 July 2003, Valencia, Spain.
- Vi14.** Kyriakides, E., **Mihaela Albu**, Heydt, G., **2006**, *Denoising Techniques for on-line Parameters Identification*, Proc. of the Conference SCEE 2006, Scientific Computing in Electrical Engineering, Sinaia, sept. 2006, ISBN: 978-973-718-520-4;
- Vi15.** R. Magureanu, **Mihaela Albu**, M. Priboianu, V. Bostan, **2006**, *Solutions for Small Hydropower Plants Integration into Distribution Networks*, Proc. of WREC Congress 2006, Florence, Italy, ISBN 008 44671 X
- Vi16.** R. Magureanu, **Mihaela Albu**, **2007**: *Advanced Technologies in Active Electrical Networks*, Proc. of the 16th CSCS Conference, Bucharest, May 2007, ISBN: 978-973-718-741-3
- Vi17.** **Mihaela Albu**, Alexandru Nechifor, Mihail Popa, Mihai Marin, Catalin Caciuleanu, Elias Kyriakides, **2009**, *Communication among measurement and control units in a DC microgrid*, Proc. of CSCS17, the 17th International Conference on Control Systems and Computer Science, Bucharest, 26 may 2009, ISSN 2066-4451

- Vi18.** Ana-Maria Dumitrescu, Ana Iacob, Valeriu Bostan, Doru Creanga, **Mihaela Albu**, Razvan Magureanu, **2009**, *Impact of the Control Algorithms on the Active Filters Performances*, Proc. of CSCS17, the 17th International Conference on Control Systems and Computer Science, Bucharest, 26 may 2009, ISSN 2066-4451.
- Vi19.** Ana Maria Dumitrescu, Mihai Calin, **Mihaela M. Albu**, **2013**, *Measurement Data Aggregation in Power Systems – Challenges and Opportunities*, Proc. of the 2nd Conference on the Power Options for the Eastern Mediterranean region, POEM, Nicosia, 6-8 October 2013
- Vi20.** A. Nechifor, **Mihaela Albu**, R. Hair, P. Dattaray, P. Wall, and V. Terzija, **2015**, *Development of a WAMS laboratory for assessing PDC compliance with the IEEE C37.244 Standard*, Proc. of the 6th International Conference on Advanced Power System Automation and Protection (APAP), September 21~23, 2015, Nanjing, China, available:
<http://digilib.monenco.com/documents/10157/4319018/APAP+2015+Conference+Guide>
- Vi21.** Ion Dobre, Nicolai Stanciu, Dorel Stănescu, **Mihaela Albu**, **2015**, *Islanding Effects in Distribution Networks – A Case Study*, Proc. of CIRED 2015, 23rd International Conference on Electricity Distribution, Lyon, 15-18 June 2015, http://cired.net/publications/cired2015/papers/CIRED2015_0972_final.pdf
- Vi22.** **Mihaela Albu**, Viorel Petre, Florin Argatu, **2015**, *New measurement topics in power engineering. A teaching experience from UPB*, Proc. of SIELMEN 2015, 8-9 Oct. 2015, Chisinau, Moldova
- Vi23.** Irina Ciornei, Marta Sturzeanu, **Mihaela Albu**, Mihai Sănduleac, Lucian Toma, **2018**, *Business models for a campus-scale demonstrator for DC resilient communities*, 2018, poster @ DC summit, Aachen, 20 April 2018
- Vi24.** Borana Taraj, Douglas Halliday, et al., Eds., **2017**, *Energy Transition and the Future of Energy Research, Innovation and Education: An Action Agenda for European Universities*, EUA, Dec. 2017, Brussels; available online: <https://energy.eua.eu/component/attachments/attachments.html?id=299>
- Vi25.** Radu Plămănescu, Tanveer Hussain, Sid Suryanarayanan, **Mihaela Albu**, James Cale, **2019**, *Avenues for the application of data-driven machine learning enhanced microgrid operations*, Fort Collins 2019 Symposium on Microgrids, August 2019.
- Vi26.** **Mihaela Albu**, **1997**, *Current Transformer Modeling in HV Systems*, in Journee d'évaluation du Projet Tempus M-PEC 07147/94: Formation d'ingénieurs et d'enseignants en domaines multidisciplinaires de haute technologie, Bucarest, 1997.