



Mihaela Marilena Albu

<https://crescdi.pub.ro/#/profile/1269>

EX2002B001980

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

Department of Engineering taught in Foreign Languages – the German stream

Politehnica University of Bucharest

Department of Engineering – Electronics

"1 Decembrie" University of Alba Iulia

Teaching Assistant / Lecturer/Associate Professor

Department of Electrical Engineering

Politehnica University of Bucharest

Power engineer trainee

The Enterprise for Energy T&D, Bucharest

Febr. 2002 –present

Oct. 1992 -present

Oct. 2008 – Oct. 2014

Oct. 1990 – Febr. 2002

Oct. 1987 – Oct. 1990

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	
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-; 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**
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