



Curriculum vitae

Europass



Informații personale

Nume / Prenume

Albu Mihaela Marilena

E-mail(uri)

mihaela.albu@upb.ro

albu@ieee.org

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

Naționalitate

Romana

Experiența profesională

Perioada

octombrie 1987 – octombrie 1990

Funcția sau postul ocupat

Inginer stagiar

Numele și adresa angajatorului

Intreprinderea de Exploatare Retele Exterioare la Inalta Tensiune București (EREIT)

Șoseaua Ștefan cel Mare 1A, București

Tipul activității sau sectorul de activitate

Cunoastere, inventariere și exploatare instalații din stațiile electrice operate de EREIT București;

Serviciul dispecer;

Serviciul telemăsurare;

Perioada

octombrie 1990 – prezent:

Funcția sau postul ocupat

Profesor abilitat conducere doctorat (2016);

Profesor (2002); conferențiar (2000), șef de lucrări (1998), asistent (1990)

Numele și adresa angajatorului

Universitatea Politehnica din București, Facultatea de Inginerie Electrică,

313 Spl. Independenței, București 060042, www.pub.ro

Tipul activității sau sectorul de activitate

Educație universitară și postuniversitară

Activități didactice – titular discipline:

Rețele electrice Inteligente; Prelucrarea semnalelor; Etică și Integritate Academică
(Facultatea de Inginerie Electrică UPB);

Măsurarea Mărimilor Electrice, (Facultatea de Energetică UPB);

Elektrische Messtechnik; Sensoren & Aktuatoren, Leistungselektronik (FILS, UPB, în lb. germană);

Activități de cercetare – director proiecte cercetare-dezvoltare (granturi naționale și internaționale obținute prin competiție), pe teme moderne din **electroenergetica:**

sisteme de măsurare sincronizată utilizând tehnologia PMU; tehnologii de măsurare inteligentă a energiei și servicii asociate; sisteme de măsurare distribuite; calitatea energiei electrice și standarde relevante; microrețele la tensiune continuă și hibride - detalii www.microderlab.pub.ro

Publicații: 7 cărți /capitole cărți; 100 publicații în reviste sau volumele unor conferințe cu recenzori și f.i.; 13 îndrumare de laborator (UPB); peste 100 rapoarte tehnice de cercetare.

ResearcherID A-5538-2010; h-index 14 (WoS), 22 (GoogleScholar), i10-index: 51 (GoogleScholar); 18 Scopus)

- expert independent **Horizon Europe, H2020, InnovationFund** si **CEF Energy**, Brussels, 2014- 2025; **NCRD-PBSE** (Polonia), online, 2018; **FP7 - ICT, Security, REGPOT; Energy projects**, Bruxelles, 2011-2017; **FP6 - Smart Grids Cluster** of research projects, Bruxelles, 2008- 2011; **HR4SR**, Bruxelles, online, 2015-2020; **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, online, 2016-2017; **HubNet**, the Supergen Energy Networks Hub (UK), online, 2016; **ENERGY21**, Dublin, 2014; **Euramet, EMRP (EMPIR)** Calls for JRP and REG Proposals, 2009-2023; **ENERGYX** Program (Norway-India), Oslo, 2015; 2018; **ERAfrica** Joint Call of Programme Owners, Call 2013; **CONCERT-Japan** Research and Innovation Joint Call 2012; **FWO** (Research Foundation Flanders), online 2013, 2018; **NRC** (Research Council of Norway), online 2013; The **Polish-Norwegian Research Program**, online 2013; **CuBR** Joint Program, Poland online, 2014, 2017; The **New Eurasia Foundation** Moscow, Russia, online, 2010-2013; Russian Science Foundation, 2015-2017, 2020; **DESMI** Program, Research Promotion Foundation, the Republic of Cyprus - ICT Call, 2009; **NSF** (Bulgaria National Science Fund), online, 2008-2010; **INTAS** (INTAS Council of scientists, www.intas.org), online, 2004-2008; **GNSF** (Georgia National Scientific Council), online, 2006-2018; **IEE** (Intelligent Energy for Europe); **WIDESPREAD** -2020 TWINNING, online 2019; **CNCIS- UEFISCDI**, Bucharest, 2003-2023; **MCID**, expert Sipoca 592 (2021)
- Membra in grupul **ETIP SNET** (European Technology and Innovation Platform Smart Networks for Energy Transition), **WG1**: Reliable, Economic and Efficient Smart Grid System, 2017-2020
- Membra in *Advisory boards* **FP7 - IDE4L** project, 2013-2016; **H2020 EriGrid** project, 2016-2019; **H2020 INTERPLAN** (INTEgrated opeRation PLAnning tool towards the Pan-European Network) 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;
- Membra a *UNI-SET Steering Committee* ('UNIversities in the SET-Plan'), FP7 project 2014-2018
- Membra a **ERIGrid User Selection Panel** ('Connecting European Smart Grid Infrastructures'), 2015-2025
- Moderator *Smart Grids Session at the SET Plan Conference on EU's Strategic Energy Technology Plan*, Stockholm, October 21-22, 2009;
- Membra a *MC, Intellicis: Intelligent Monitoring, Control and Security of Critical Infrastructure Systems*, COST Action IC0806, 2009-2013; **Vice-Chair WG2**: Reliable manag. and control of electric power systems;
- Membra a **WG5, PV in grids, COST Action PEARL PV (CA16235) on "Performance and Reliability of Photovoltaic Systems: Evaluations of Large-Scale Monitoring Data"**, 2018-2022.
- 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, 2011-
- IBM/IEEE Smarter Planet Challenge (SPC) Student Competition review process: 2013, 2014, 2015
- GE Leadership Program – Romania, 2008-2016;
- Gazda (UPB) a specialistilor/ bursieri/ **Fulbright**: 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-
- Sustainable Energy, Grids and Networks – SEGAN Journal (Elsevier), Editor, 2020-
- **Referent** pentru IEEE Trans. on PWRD; IEEE Trans. on Smart Grid; IEEE Trans. on Sustainable Energy; IEEE Trans. on Instr. and Measurements; IEEE Trans. on Power Systems; IEEE Systems Journal; Measurement (Elsevier), Revue Roumaine des Sciences Technique; Buletinul Stiintific UPB; Energetica s.a.
- **Referent** *Modern Measurements: Fundamentals and Applications* by Alessandro Ferrero, Dario Petri, Paolo Carbone, and Marcantonio Catelani, Eds. Wiley, 2015; *Active Power Line Conditioners to Increase Power Quality* by Patricio Salmerón Revuelta, Ed., Elsevier, 2015; Dictionar explicativ pentru stiintele exacte, Ed. Academiei Române, București 2003; Thong Vu Van, *Smart grid technology watch. Position, Function, Technology and Policy*, Report 3E Generatie, 2010

Realizări notabile

- **Bursier Senior Fulbright** la Arizona State University, Tempe, AZ (dr. G.T.Heydt)
Synchronized measurements in WAMCS (2010)
Power Quality (2002-2003).
- **Distinguished Lecturer** IEEE Instrumentation and Measurement Society (*High Reporting Rate Measurements for Smart[er] Grids*), 2017-2024
- Membra a **IEEE Joseph F. Keithley Award in Instrumentation & Measurement Committee**, 2019-2022
- Membra IEEE IMS TC 39, *Measurements in Power Systems* – **2016 Outstanding TC award**
- Membra in **Comisia de Inginerie Electrica** a Consiliului Național de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare (**CNATDCU**), 2020-2024
- Membra in **Comitetul de Conducere a Scolii Doctorale de Inginerie Electrica**, 2020 -
- Membra a **Colegiului Consultativ pentru Cercetare-Dezvoltare și Inovare (CCCDI)**, 2021-2025

Educație și formare**Perioada**

16-18 July 2007

Absolventa a cursului [PI.61s]: *Leadership Skills for Engineering and Science Faculty*, MIT Professional Institute, Cambridge, MA.

Perioada

1993-1998

Diploma obținută

Dr. ing. (17 martie 1998)

Teză de doctorat **“Contribuții Privind Studiul Fenomenelor Tranzitorii pe Liniile Electrice de Înaltă Tensiune cu Aplicație la Proiectarea Protecțiilor Numerice de Distanță”** - susținută public la 16 ianuarie 1998; conducător științific: Prof. dr. ing. Arie Arie

Numele și tipul instituției de învățământ**Universitatea Politehnica București, Facultatea de Energetică,****Perioada**

1982-1987

Calificarea / diploma obținutăInginer; **Diplomă de merit** – șef de promoție (dintre cei 700 de absolvenți în întreaga țară).**Discipline studiate / principale competențe dobândite**

Rețele electrice. Măsurări electrice. Sisteme electrice. Protecții și Automatizări.– programa secției Electroenergetică a Facultății de Energetică din UPB. Premii naționale la concursurile "Traian Lalescu" (matematică, bazele electrotehnicii) și la Conferințele Studențești (**Premiul I la a XVIII-a Sesiune Națională de Comunicări Științifice Studențești, Cluj 1986**).

Numele și tipul instituției de învățământ**Universitatea "Politehnica" București, Facultatea de Energetică, secția Electroenergetică.****Limba(i) străină(e)****Autoevaluare****Nivel european (*)****Limba engleza****Limba franceza****Limba germana**

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Conversație		Discurs oral		Exprimare scrisă	
C2	Utilizator experimentat	C2	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat
C1	Utilizator experimentat	B2	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent	B1	Utilizator independent
C1	Utilizator experimentat	C1	Utilizator experimentat	C2	Utilizator experimentat	C1	Utilizator experimentat	C1	Utilizator experimentat

Competențe și abilități socialeSpirit de echipă (**fondator grupul MicroDERLab**, www.microderlab.pub.ro, 2005-);

Adaptabilitate (bursier peste 40 de luni în Europa și SUA).

Voluntariat profesional (IEEE Instr. & Meas. Society, 2009-2016) și civic (ad-astra, 2005-)

Competențe și aptitudini organizatorice

Manager de proiect (total aprox. 3 mil. euro); **formare și coordonare echipe de cercetare complexe** (parteneriat național și internațional).

- **Organizator de evenimente științifice** internaționale - **IEEE AMPS**, Applied Measurements for Power Systems, Aachen /Bern/ Caserta/București 2012-2025; 6th COST action **Workshop IntelliCIS**, May 2012, Bucharest; **IEEE SMFG**, Smart Measurements for Future Grids, Bologna, noiembrie 2011; **IEEE AMUEM**, IEEE Int. Workshop on Adv. Methods for Uncert. Estimation in Meas., 6-7 July Bucharest 2009; membra (Europe lead) a comitetului de organizare a seriei **Microgrids Symposium**: Evora, Portugal- Sept. 2012,; Santiago de Chile, Chile - Sept. 2013,; Tianjin, China -Nov. 2014; Aalborg, Denmark- Sept. 2015; Newcastle, Australia- Nov. 2017; București, Romania - sept. 2018; Fort Collins, Colorado - August 2019; Singapore - Oct. 2022; EnergyVille Genk – Sept. 2023; Moderator și organizator **Mese Rotunde IRE** (2010-), evenimente /întâlniri de lucru IEC (2019-) – IEC TC 38 General meeting, Bucharest 2-6 Oct. 2023; CIGRE (2015-), etc.

- **Coordonator echipa proiect „Engineer your Future!”**, partener de implementare Asociația „IEEE Romania Members”, „Small Grants for Alumni Programs”, Ambasada Statelor Unite la București, 2021-2022

- **Proctor** of the “Powerhouse” team from UPB (Alexandru Nechifor, Dan Spatarel and Mihai Gherghe), in the International Programming Competition **IEEEExtreme Challenge** -ranked 3rd in 2015; ranked 8th in 2014, ranked 6th in 2013 (worldwide)

Alte competențe

- Membră activă în organizații profesionale: • **AGIR** (www.agir.ro); • **CIGRE** (Conseil International des Grands Réseaux Electriques, www.cigre.org), 2009- ; membru (observator) în SC6 2012-2016; membru în WG B5.41 (2009-2015): Investigation of possibilities to improve metering systems for billing purposes in substations; • membru **VDE** (www.vde.de), Energietechnik (ETG) și Mess- und Automatisierungstechnik (GMA), 2010-; • senior member **IEEE** (www.ieee.org), (M'98, SM'08); Vice-President Membership Dev. (2010-2011) and Technical Activities (2012-2013) of the Instr. and Meas. Society; Chapter Chair IEEE IMS Romania Chapter 2017-2019 • **IRE** (www.ire.ro), 2005-; • **ASRO** (Romanian Standards Association, www.asro.ro) - membru 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; •

- Membră activă și co-autor al documentelor elaborate de **IEC** și **CEN-CENELEC**: membra **TC8X-WG7** și **IEC SC77A WG9** - Power Quality Measurement Methods; **IEC 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/JWG 9** - LVDC distribution, 2020 -; **IEC TC8/JWG12**: System aspects of electrical energy supply-Requirements for frequency measurement used to control DER and loads) 2019-

- **Standardization Ambassador**, ASRO, Bucharest, **Oct. 2018**;
- **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”).

Anexa 1. Lista de lucrari relevante

T1. Mihaela Albu, Contribuții Privind Studiul Fenomenelor Tranzitorii pe Liniile Electrice de Inalta Tensiune cu Aplicație la Proiectarea Protecțiilor Numerice de Distanță (Transient Phenomena on HV aerial lines for distance protection design), – **UPB, susținută public la 9 ianuarie 1998; Conducator de doctorat: Prof. Arie A. Arie,**

A1.1.1. Carti cu ISBN/ capitole ca autor didactice sau monografii

A1.1.1.1 internationale

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

A1.1.1.2 nationale

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

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 Stanesco, **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**
- Ris18. N. Hatzigiorgiou, M. Brucoli, J. Driesen, **M. Albu**, G. Mendes and R. Plamanescu, , **2024**, "The EnergyVille 2023 Symposium on Microgrids [Newsfeed]," in IEEE Electrification Magazine, vol. 12, no. 1, pp. 86-92, March 2024, doi: 10.1109/MELE.2023.3348336.
- Ris19. A. P. Brîncoveanu, R. Plămănescu, A. -M. Dumitrescu and **M. Albu**, **2024**, "Voltage variability assessment in power systems", RRST-EE, vol. 69, no. 2, pp. 171–176, Jul. 2024, doi: 10.5927/RRST-EE.2024.2.9, WOS:001265977200009.
- Ris20. A. P. Brîncoveanu, R. Plămănescu, A. -M. Dumitrescu and **M. Albu**, **2024**, "Variability assessment of net power profiles for prosumers with PV generation" U.P.B. Sci. Bull., Series C, Vol. 86, Iss. 4, 2024

Volume conferinte Web of Science (2020-2025):

Vis1. - Vis65. Inainte de 2020

- Vis66.** Lucian Toma; Mihai Sanduleac; Dorian-Octavian Sidea; Carmen Stanesco; 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, WOS: 001039259600014.
- 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, WOS:001039259600083
- Vis75.** G. Stamatescu, R. Plamanescu and **M. Albu**, 2023, "Leveraging Anomaly Detection and AutoML for Modelling Residential Measurement Power Traces," 2023 IEEE 13th Intern. Workshop on Applied Meas. for Power Systems (AMPS), Bern, Switzerland, 2023, pp. 1-5, doi: 10.1109/AMPS59207.2023.10297201.
- Vis76.** A. P. Brîncoveanu, E. Fiorentis, A. -M. Dumitrescu and **M. Albu**, 2023, "Assessing Frequency Variability Using Long Term High Reporting Rate Measurements," 2023 International Conf. on Electromechanical and Energy Systems (SIELMEN), Craiova, Romania, 2023, pp. 1-6, doi: 10.1109/SIELMEN59038.2023.10290822.
- Vis77.** R. Plamanescu et al., , 2023, "Open-Source Platform for Integrating High-Reporting rate Information Using FIWARE Technology," 2023 IEEE 13th International Workshop on Applied Measurements for Power Systems (AMPS), Bern, Switzerland, 2023, pp. 01-06, doi: 10.1109/AMPS59207.2023.10297206.
- Vis78.** A. P. Brîncoveanu, R. Plămănescu, A. -M. Dumitrescu and **M. Albu**, 2024, "Measurement and Information Uncertainty for Highly Variable Power Profiles," 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Glasgow, United Kingdom, 2024, pp. 1-6, doi: 10.1109/I2MTC60896.2024.10560907.
- Vis79.** R. Plamanescu and **M. Albu**, 2024, "Leveraging the Rate of Change of Active Power for Enhanced Event Identification," 2024 International Conference on Smart Grid Synchronized Measurements and Analytics (SGSMA), Washington, DC, USA, 2024, pp. 1-5, doi: 10.1109/SGSMA58694.2024.10571474.
- Vis80.** A. P. Brîncoveanu, E. Fiorentis, R. Plămănescu, A. -M. Dumitrescu and **M. Albu**, 2024, "Estimation of the LV power profiles variability using the Goodness of Fit approach", 14th IEEE International Workshop on Applied Measurements for Power Systems (AMPS), Caserta, Italy, Sept. 2024

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

- Rbdi1.** Marnay, C. ; Kroposki, B. ; Mao, M. ; Xu, H. ; Chong, A. ; Chung, S. ; Hara, R. ; Ise, T. ; Iravani, R. ; Katiraei, F. ; **Albu, M.** ; Hatziargyriou, 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
- Rbdi2.** 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. Zomerst† NI, Corresponding Members H. Farhangi Ca, E. Silva Br, N. Luib De, J. Aderaldo Lopes Br, C. Marnay Us, P. Lopes Cavalcante B
- Rbdi3.** 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

In volume BDI (2020-2025): Vbdi1-25 inainte de 2020)

- Vbdi26.** 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
- 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*, CIRE2022 Shanghai Workshop - [Open Access Proceedings Journal](#), vol. 2022, paper 111

Alte lucrari:

Vni1. P. Brîncoveanu, E. Fiorentis, A. -M. Dumitrescu and M. **M. Albu**, 2024, "Metrici pentru evaluarea variabilității transferului de energie în rețelele electrice de distribuție" Revista Energetica, ISSN 1453-2360, (CNCSIS B+)

Anexa 2. Listă proiecte de cercetare (director de proiect):

1. **NOVETROL**, Novel current control for climate neutral energy infrastructure, Horizon Europe, Project Coordinator dr. Mihaela Albu, (12/01/2024) 12/01/2024-11/30/2027,
2. **ECom4Future** (ERA-NET CET Partnership Call), 2024-2026, FIWARE Driven Energy Communities for the Future, coordinated by RWTH Aachen University, Germany, UPB team leader dr. Mihaela Albu
3. **CARDEA** (Towards a Europe-Wide Training and Networking Scheme for Research Managers), a HORIZON-WIDERA project coordinated by University College Cork, 2022-2026
4. **EMERGE (Advanced Measurement Framework for Emerging Power Systems)**, 2021-2023, PN-III-P4-ID-PCE2020-2, P.I. Mihaela Albu
5. **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.
6. **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
7. **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
8. **REDESIGN (ERASMUS+)**, 2016-2019, an interdisciplinary project which aims is to bring 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 for students across different academic institutions. The project is coordinated by the University of Cyprus. UPB team leader dr. Mihaela Albu.
9. **ActiveDGModel**, Active distribution networks. Parameters identification and function analysis using synchronized measurement systems PN-II-ID-PCE-2011-3-0693, P.I. Mihaela Albu, 2012-2016.
10. **SyncPower**, Synchronized measurement technology for a higher degree of monitoring and control in the power systems of Cyprus and Romania, Bilateral Research Program România-Cyprus, Project Directors M. Albu, E. Kyriakides, 2014-2015
11. **Hybrid**, The formulation of the next generation state estimator by utilizing synchronized phasor measurements. Project financed by Cyprus Research Promotion Foundation. Project partners: University of Cyprus, UPB, Cyprus TSO, 2012-2014, UPB team leader dr. Mihaela Albu
12. **SMART REGIONS**, Promoting smart metering best practices in EU, CIP-IEE-2009, consortium coordinator Jyväskylä Innovation Ltd., FI; UPB P.I. Mihaela Albu, 2010-2013.
13. **WideView**, The use of telecommunications and GPS technology for the real-time wide-area monitoring and control of power systems, Project financed by Cyprus Research Promotion Foundation, Project partners: University of Cyprus, Arizona State University, UPB, Cyprus TSO, 2012-2013, UPB team leader dr. Mihaela Albu
14. **EnergyMAD**, funded by the DERri FP7 project, Laboratory access for MicrodERLab team: Mihai Călin, Tiberiu Tudorache, Radu Porumb, Mihaela Albu (P.I.), 2012
15. **VSYNCR**, Virtual synchronous machines for frequency stabilization in future grids with a significant share of decentralized generation, Proiect STREP FP6, coordonator Energy research Centre of Netherland (ECN); UPB P.I. Mihaela Albu, 2007-2011
16. **ADVANCEDGRIDS**, Enabling the integration of wide area measurement systems in the electric power grids of Cyprus and Romania (Integrarea sistemelor de măsurare pe arii extinse în rețelele electrice din Cipru și România), Bilateral Research Programme Romania-Cipru, Principal Investigators M. Albu, E.Kyriakides, 2010-2011.
17. **TAMPERE**, Advanced measurement solutions and parameter estimation techniques for active distribution networks, Grant CNCSIS IDEI 1402, P.I. Mihaela Albu, 2009-2011.
18. **ENHIT**, Emerging technologies for power supply of high-tech buildings, National Research Project – PNCD II-Parteneriate nr. 21065/14.09.2007, Project co-ordinator M. Albu, 2007-2010
19. **PQACTNET** (Power Quality Assessment in Active Distribution Networks), Contract colaborare științifică bilaterală România-Cipru, Principal Investigators M. Albu, E.Kyriakides, 2008-2009.
20. **DCnet**, DC Distribution Networks for Industrial Applications, CNCSIS 010608/07.06/2006 (Consoțiu), P.I. M. Albu, 2006-2008
21. **DCIDER** - Emerging DC Distribution Grids for Optimal Use of Dispersed Generation - finanțat de Autoritatea Națională pentru Cercetare Științifică prin programul „Cercetare de Excelență” – Modulul I, CEEX 109/10.10.2005, P.I. M. Albu, 2005-2008

Anexa 3: Listă selectivă a prezentărilor și conferințelor invitate (recente)

-evenimente internaționale:

- Mihaela Albu, **2025**, DL invited Lecture *High reporting measurements for smarter power systems*, EPIM Anniversario IEEE IMS & IEEE PE Montevideo, Uruguay, 27 februarie 2025,
- Mihaela Albu, **2024**, *Measurements for emerging power grids*, National Institute of Technology Silchar, invited DL at NIT Silchar, India, 28th January 2024
- Mihaela Albu, **2024**, *Measurements for emerging low inertia power systems*, 2024 3rd International Conference on Control, Instrumentation, Energy & Communication (CIEC), Kolkata, 26th January 2024
- Mihaela Albu, **2024**, *Measurements and Models for WAMSC*, Institute of Engineering & Management, invited DL at University of Kolkata, 25th January 2024
- Mihaela Albu, **2023**, *Assessment of power flow variability in low inertia grids*, invited DL at 5th International Conference on Recent Developments in Control, Automation & Power Engineering, 13 October 2023, Amity University Noida, [online]
- 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**, *Towards emerging power systems: Correlation of national, European and international R&D efforts*, International research collaboration opportunities fostering EU Clean Energy transition in Romania – PANTERA / SUPEERA joint workshop, 23rd March 2023, Bucharest, Romania
- 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, **2022**, International Guest Lecture on *Measurements for low inertia grids control*, Amity Univ., Noida, India, 7 June. 2022
- Mihaela Albu, **2022**, lecture on *Measurements in Smart Grids*, ATHENS network course on *Smart Grids*, UPB, Bucharest, 16 March 2022
- Mihaela Albu, **2022**, talk on *High Reporting Rate Measurements for Smart[er] Grids*, 4th IEEE Intern. Conf. on Emerging Smart Computing & Informatics, Pune, India, 11th 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 *Measurements for Emerging Power Systems Control*, RDCAPE 2021, Amity Univ., India, 8 Oct. 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, [online], 09 July 2021
- Mihaela Albu, **2021**, invited talk on *High Reporting Rate Measurements for Smart[er] Grids IEEE Malabar Subsection - 56th Talk of the Webinar Series*, [online], 24 June 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, **2020**, webinar on *Measurements in the Emerging Power Systems: The Case of Phasor Measurement Units*, IEEE IMS Virtual Distinguished Lecturer Webinar Series, [online], 10 sept. 2020
- Mihaela Albu, **2020**, invited talk on *Measurement issues in emerging power grids*, Galveston Bay Section IEEE Joint Societies Chapter, [online], 17 July 2020
- 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, **2018**, technical talk on *Measurements and Models*, Universiti Teknologi Malaysia, Kuala Lumpur, 28 November 2018
- Mihaela Albu, **2018**, *High Reporting Rate Measurements for Smart(er) Grids*, Keynote Speaker at the 5th International Conference on Smart Instrumentations, Measurements and Applications, Songkla, Thailand, 29 November 2018

- Mihaela Albu, **2018**, *The new role of measurements in emerging power systems*, Invited Lecture at DynPower Workshop, Winterthur, Switzerland, 17 September 2018
- Mihaela Albu, **2018**, panelist at *DC-hybrid grids support*, Directorate General for Energy, Brussels, 27 May 2018;
- Mihaela Albu, **2017**, *High Reporting Rate Measurements for Smart(er) Grids*, Technical Lecture Series, Univ. of Manchester, 18 Sept. 2017
- Mihaela Albu, **2017**, *DC microgrids*, at "Relevance of electronic components and systems in the energy domain" – experts meeting, Brussels, 4th Sept. 2017
- Mihaela Albu, **2017**, *Embedding Intelligence in Future Grids conflicting visions, common perspective*, Fraunhofer IoT Innovation and Networking Days, Sankt Augustin, Germany, 22 May 2017
- Mihaela Albu, **2017**, *Future connectivity networks & mission-critical services in the energy sector - a measurement perspective* at "5G and Energy" – experts meeting, Brussels, 14th March 2017
- Mihaela Albu, **2016**, *Measurement technology and the new models in emerging power systems*, Outlook Session: Education for the future Energy systems, at the Universities in the SET-Plan (Uni-SET) 3rd energy clustering event, Bucharest, 24 November 2016.
- Mihaela Albu, Elias Kyriakides, **2016**, *The impact of measurements on power system state estimation*, Tutorial IEEE- I2MTC Conf., Taipei, 23 May 2016.

-evenimente nationale:

- Mihaela Albu (org.), Radu Plamanescu, Stefan Gheorghe, **2019**, Synchronized measurements in the FISMEP project, at the IRE Workshop „Emerging energy systems and the use of synchronized measurements”, Bucharest, 13 June 2019
- Mihaela Albu, Mihai Sanduleac, Viorel Petre **2018**, Self-consumption analysis using enhanced (NobelGrid) Smart meters, at the IRE Workshop „Smart Meering for Smart Cities”, Bucharest, 27 June 2018
- Mihaela Albu, **2018**, Noutati privind masurarea frecventei in IEC si CEN-CENELEC, at CIGRE B5 meeting, Sibiu, 29 March 2018
- Mihaela Albu, Mihai Sanduleac, **2017**, Aplicatii ale contorizarii inteligente in configuratie USM pentru comunitatile de utilizatori care includ prosumeri - proiectul Storage4Grid - in Romanian), at the Smart Metering Symposium, Sibiu, 16 Nov. 2017

Anexa 3. Listă selectivă a publicațiilor recente

- ✚ N. Hatzigargyriou, M. Brucoli, J. Driesen, M. Albu, G. Mendes and R. Plamanescu, **2024**, "The EnergyVille 2023 Symposium on Microgrids [Newsfeed]," in IEEE Electrification Magazine, vol. 12, no. 1, pp. 86-92, March 2024, doi: 10.1109/MELE.2023.3348336.
- ✚ A. P. Brancoveanu, R. Plamanescu, A. -M. Dumitrescu and M. Albu, **2024**, "Voltage variability assessment in power systems", RRST-EE, vol. 69, no. 2, pp. 171-176, Jul. 2024, doi: 10.59277/RRST-EE.2024.2.9, WOS:001265977200009.
- ✚ A. P. Brancoveanu, R. Plamanescu, A. -M. Dumitrescu and M. Albu, **2024**, "Variability assessment of net power profiles for prosumers with PV generation" U.P.B. Sci. Bull., Series C, Vol. 86, Iss. 4, 2024, ISSN 2286-3540
- ✚ A. P. Brancoveanu, R. Plamanescu, A. -M. Dumitrescu and M. Albu, **2024**, "Measurement and Information Uncertainty for Highly Variable Power Profiles," 2024 IEEE International Instrumentation and Measurement Technology Conference (I2MTC), Glasgow, United Kingdom, 2024, pp. 1-6, doi: 10.1109/I2MTC60896.2024.10560907.
- ✚ R. Plamanescu and M. Albu, **2024**, "Leveraging the Rate of Change of Active Power for Enhanced Event Identification," 2024 International Conference on Smart Grid Synchronized Measurements and Analytics (SGSMA), Washington, DC, USA, 2024, pp. 1-5, doi: 10.1109/SGSMA58694.2024.10571474.
- ✚ A. P. Brancoveanu, E. Fiorentis, R. Plamanescu, A. -M. Dumitrescu and M. Albu, **2024**, "Estimation of the LV power profiles variability using the Goodness of Fit approach", 14th IEEE International Workshop on Applied Measurements for Power Systems (AMPS), Caserta, Italy, Sept. 2024
- ✚ G. Stamatescu, R. Plamanescu; M. 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*, doi: 10.1109/TII.2021.3095101, impact factor 10.2
- ✚ 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
- ✚ 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, DOI: 10.1109/TPWRD.2019.2918059

- **CIGRE TB 826 Hybrid Systems for Off-Grid Power Supply**, Jan. **2021**, Members WG. C6.28: B. Buchholz, Convener