

PhD. Simona Vasilica OPREA – RESUME

CONTACT INFO

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BIOGRAPHICAL INFO

Birth Date : July 14, 1978
Place of Birth : Bucharest, Romania
Citizenship : Romanian

EDUCATIONAL BACKGROUND

- **Ph.D.** in Economic Informatics and Cybernetics, Bucharest University of Economic Studies, Romania, 2017. Subject area: Informatics Solutions in Smart Grids
- **PhD.** in Electrical Engineering, Bucharest Polytechnic University, Power Systems Doctoral School, Energy Faculty, 2009: Subject area: Aspects regarding the open access to the electricity grids. Renewable energy sources integration
- **M.Sc.** in Infrastructure Management, The International Graduate School of Social Sciences, Yokohama National University, Japan, 2005-2007;
- **M.Sc.** in Electrical Engineering, Bucharest Polytechnic University, Energy Faculty, Romania, 2001-2002;
- **B.Sc.** in Electrical Engineering, Bucharest Polytechnic University, Energy Faculty, Romania, 1996 - 2001

WORK EXPERIENCE

- **Oct. 2014 to present:**
Assistant professor – Department of Economic Informatics and Cybernetics, Faculty of Economic Cybernetics, Statistics and Informatics, Bucharest University of Economic Studies (BUES)
- **Jan. 2014- Aug. 2014:**
Expert - Romanian Energy Regulatory Authority (ANRE). Technical regulations, procedures, methodology, grid codes, participation to working groups of ACER
- **Jan. 2002 – Dec. 2013:**
Power System Engineer, Project Manager (2007 - 2013) - CNTEE Transelectrica S.A. National Power Grid (TSO): system studies, strategy for renewable energy sources promotion, ten-year national development plan, responsible with steady state regimes of transmission and distribution grids for the next 5 and 10 years, modelling of grid elements, identifying solutions for electricity transmission grid within Grid Planning Department.

RESEARCH INTEREST

- Informatics solutions for Smart Grids, demand side management, RES generation and integration, consumption optimization.
- Databases & Data Warehousing; Big Data; Data Mining; Artificial Neural Networks; IoT; Business Intelligence;

RECENT KEY PROJECTS RELEVANT TO THE TOPIC

- IT Solutions for Analysis and Consumption Optimization in Smart Grids (SMART-OPTIM), project code PN-III-P2-2.1-BG-2016-0286, Program Increasing the Competitiveness of the Romanian Economy through Research, Development and Innovation, Subprogram 2.1. Competitiveness through Research, Development and Innovation, Bridge Grant Competition, funded by National Authority for Scientific Research and Innovation – UEFISCDI, Romania, 2016-2018 – project director;
- Intelligent system for trading on wholesale electricity market (SMARTRADE), COMPETITIVENESS OPERATIONAL PROGRAMME 2014-2020, funded by European Funds ERDF, 2016-2020;
- Informatics solution for optimization of technical procedures of photovoltaic power plants (OPTIMPV), project code PN-III-P2-2.1-PTE-2016-0032, Transfer to Economic Operator Competition (PTE), funded by National Authority for Scientific Research and Innovation – UEFISCDI, Romania, 2016-2018 – project director for BUES;
- Intelligent system for predicting, analysing and monitoring performance indicators and business processes in the field of renewable energies (SIPAMER), PNII - PCCA 2013, code 0996, no. 49/2014 funded by National Authority for Scientific Research and Innovation – UEFISCDI, Romania, 2014-2017;
- Transmission system planning project: South-east Cooperative initiative/ Black Sea transmission system planning project, Transelectrica and USEA, USAID /10 year network development plan, 2013 – project manager;
- Transelectrica strategy for promoting renewable energies / Power system studies, Romanian TSO (Transelectrica), 2007 – 2013, project manager.

RECENT KEY PUBLICATIONS RELEVANT TO THE TOPIC

- A. Pîrjan, S.V. Oprea, G. Căruțașu, D.M. Petroșanu, A. Bâra, C. Coculescu - Devising Hourly Forecasting Solutions Regarding Electricity Consumption in the Case of Commercial Center Type Consumers, *Energies* 2017, 10(11), 1727; (doi:10.3390/en10111727);
- S.V. Oprea, A. Bâra, M.E. Cebeci, O.B. Tör - Promoting peak shaving while minimizing electricity consumption payment for residential consumers by using storage devices, *Turkish Journal of Electrical Engineering & Computer Sciences*, 2017 (25) 3725-3737 (doi: 10.3906/elk-1606-152);
- S.V. Oprea, A. Bâra, A. Reveiu - Informatics solution for energy efficiency improvement and consumption management, 10th International Conference on Sustainable Energy & Environmental Protection, Seep2017, Slovenia, 27-30 June, 2017;
- S.V. Oprea, A. Bâra - Electricity load profile calculation using Self-Organizing Maps, IEEE 20th International Conference on System Theory, Control and Computing (ICSTCC), (Joint conference SINTES 20, SACCS 16, SIMSIS 20), 13-15 oct 2016, Sinaia, Romania;
- S.V. Oprea - Informatics solutions for electricity consumption optimization, 16th IEEE International Symposium on Computational Intelligence and Informatics – CINTI 2015, Obuda University, Budapest, Hungary, 19-21 November, 2015.