

# PhD. Professor Adela BĂRA – RESUME

## CONTACT INFO

**Address** : No. 6 Romana Square, District 1,  
Bucharest, Romania  
**Tel** : +40 – 722191896 (Mobile)  
**Email** : bara.adela@ie.ase.ro

## BIOGRAPHICAL INFO

**Birth Date** : October 11, 1978  
**Place of Birth** : Bucharest, Romania  
**Citizenship** : Romanian

## EDUCATIONAL BACKGROUND

- **Habilitation** in Economic Informatics and Cybernetics, 2015
- **Ph.D.** in Economic Informatics and Cybernetics, Bucharest University of Economic Studies, Romania, 2007. Subject area: Data warehousing, Data Mining and Business Intelligence
- **M.Sc.** in Economic Informatics and Cybernetics, Bucharest University of Economic Studies, Romania (2002-2003)
- **B.Sc.** in Economic Informatics and Cybernetics, Bucharest University of Economic Studies, Romania (1997 - 2002)

## WORK EXPERIENCE

- **Oct. 2015 to present:**  
*Professor* – Department of Economic Informatics and Cybernetics, Faculty of Economic Cybernetics, Statistics and Informatics, Bucharest University of Economic Studies (BUES)  
*PhD Supervisor* – main supervisor for 3 PhD students and co-supervisor for 10 PhD students, subject areas: Data warehousing, Data Mining, Big Data, Business Intelligence, Artificial neural Networks.
- **Oct. 2002 – Oct. 2015:**  
*Assistant professor* (2002-2008), *lecturer* (2008-2013), *associate professor* (2013-2015) – Department of Economic Informatics and Cybernetics, Faculty of Economic Cybernetics, Statistics and Informatics, Bucharest University of Economic Studies (BUES)

## RESEARCH INTEREST

- Databases (relational, object-oriented, spatial, NoSQL); data warehousing; Big Data; data mining; Artificial Neural Networks; IoT; Business Intelligence;
- Informatics solutions for energy systems: data integration, analytics, web-services, cloud-computing development.

## RECENT KEY PROJECTS RELEVANT TO THE TOPIC

- Intelligent system for trading on wholesale electricity market (SMARTRADE), COMPETITIVENESS OPERATIONAL PROGRAMME 2014-2020, funded by European Funds ERDF, 2016-2020, project responsible;
- Informatics solution for optimization of technical procedures of photovoltaic power plants (OPTIMPV), project code PN-III-P2-2.1-PTE-2016-0032, Increasing the Competitiveness of the Romanian Economy through Research, Development and Innovation, Subprogram 2.1. Competitiveness through Research, Development and Innovation, Transfer to Economic Operator Competition (PTE), funded by National Authority for Scientific Research and Innovation – UEFISCDI, Romania, 2016-2018 – project director for BUES;
- 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;
- 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 – project director;

## RECENT KEY PUBLICATIONS RELEVANT TO THE TOPIC

- A. Pîrjan, S.V. Oprea, G. Căruțașu, D.M. Petroșanu, A. Băra, 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. Băra, 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);
- A. Băra, S.V. Oprea, A. Uta, O.B.Tör, M.E.Cebeci - Informatics Solutions for Smart Trading on Energy Wholesale Markets Containing RES Bidders, *ACM International Conference on Computer Systems and Technologies, CompSysTech 2017*, 29-30 June 2017, Ruse, Bulgaria;
- Reveiu, S.V. Oprea, A. Băra - Identifying Energy Consumers Behaviour by Using Energy Big Data Analytics, *10th International Conference on Sustainable Energy & Environmental Protection, Seep2017*, Slovenia, 27-30 June, 2017;
- I.Lungu, A.Băra, G.Căruțașu, A.Pîrjan, S.V.Oprea - Prediction intelligent system in the field of renewable energies through neural networks, *Economic Computation and Economic Cybernetics Studies and Research*, 2016, 0424-267X;
- S.V. Oprea, A. Băra - Electricity load profile calculation using Self-Organizing Maps, *20th International Conference on System Theory, Control and Computing (ICSTCC)*, (Joint conference SINTES 20, SACCS 16, SIMSIS 20), 13-15 oct 2016, Sinaia, Romania;
- A. Băra, G. Căruțașu, C. Botezatu, A. Pîrjan - Comparative Analysis between Wind and Solar Forecasting Methods Using Artificial Neural Networks, *Proceedings of the 16th IEEE International Symposium on Computational Intelligence and Informatics (CINTI 2015)*, 19-21 November, 2015, Budapest, Hungary;
- A. Băra, S.V. Oprea, I. Lungu, G. Căruțașu, C. P. Botezatu - Financial simulator based on wind power plants forecast, *World Renewable Energy Congress, WREC XIV*, Bucharest – Romania, June 8 – 12, 2015, *Open Access Journal of Physics: Conference Series (JPCS)*, 1742-6596.