

## CURRICULUM VITAE

### Personal information

Name, Surname:	<b>Bara Adela</b>		
Date of birth:	11.10.1978	Sex:	F
Nationality:	Romanian		
Researcher unique identifier(s) (ORCID, Researcher ID etc.):	<a href="https://orcid.org/0000-0002-0961-352X">https://orcid.org/0000-0002-0961-352X</a> <a href="https://scholar.google.com/citations?hl=ro&amp;user=EyuTSOQAAAAJ">https://scholar.google.com/citations?hl=ro&amp;user=EyuTSOQAAAAJ</a>		
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### Education

Year	Faculty/department - University/institution - Country
2015	Habilitation in Economic Informatics, Bucharest University of Economic Studies, Romania
2007	Ph.D. in Cybernetics, Bucharest University of Economic Studies, Romania
2003	Master in Economic Informatics, Bucharest University of Economic Studies, Romania
2002	Bachelor in Economic Informatics and Cybernetics, Bucharest University of Economic Studies, Romania

### Positions - current and previous

(Academic sector/research institutes/industrial sector/public sector/other)

Year	Job title – Employer - Country
2015-present	<i>Professor</i> – Department of Economic Informatics and Cybernetics, Faculty of Economic Cybernetics, Statistics and Informatics, Bucharest University of Economic Studies (ASE), Romania <i>PhD Supervisor</i> – main supervisor for more than 10 PhD students, subject areas: Big Data, Internet of Things, Artificial Intelligence.
2002-2015	<i>Assistant professor</i> (2002-2008), <i>lecturer</i> (2008-2013), <i>associate professor</i> (2013-2015) – Department of Economic Informatics and Cybernetics, Faculty of Economic Cybernetics, Statistics and Informatics, Bucharest University of Economic Studies (ASE), Romania

### Project management experience

(Academic sector/research institutes/industrial sector/public sector/other. Please list the most relevant.)

#### Principle Investigator, project responsible or director

Year	Project title - Role – Funder – Budget – link to project webpage
2024-2027	A Business Model-Oriented Platform with Applications for Developing Local Electricity Markets and Accelerating Clean Energy Transition (SMART-LEM) – Clean Energy Transition Partnership (CETP 2022), 230000EUR, Co-PI, <a href="https://smartlem.ase.ro/">https://smartlem.ase.ro/</a>

2024-2027	Service-oriented Open Platform for Citizen Energy Communities (OPEN4CEC), Driven Urban Transition (DUT Call 2022), 230000 EUR, Co-PI, <a href="https://open4cec.ase.ro">https://open4cec.ase.ro</a>
2022-2024	Developing a Model-based Digital Twin Reference Architecture for Active Energy Consumers and Smart Communities (SMART-TWINS), PCE 35/2022, PN-III-P4-PCE-2021-0334, 1.2 mil. RON, Co-PI; <a href="https://simonaoprea.ase.ro/smart-twins/">https://simonaoprea.ase.ro/smart-twins/</a>
2016-2020	Intelligent system for trading on wholesale electricity market (SMARTRADE), Competitiveness Operational Programme (COP) 2014-2020, Contract 62/2016, Co-financed by European Regional Development Fund (ERDF), Funding agency: ANCSI, Total amount: 1.200.000 EURO, Project responsible, <a href="http://smartrade.ase.ro/">http://smartrade.ase.ro/</a>
2016-2018	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, 100000 EUR, Project responsible, <a href="http://www.icpe.ro/ro/optimpv/">http://www.icpe.ro/ro/optimpv/</a>
2014-2017	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, 348.000 EUR, PI
2010-2013	IT solutions for assisting the decision-making process in uncertain environments and with less predictable developments in order to integrate into grid, PNII-TE, Code: 332, Contract 44/2010, Funding agency: UEFISCDI, 140.000 EURO, PI

### ***Project Member***

Year	Project title - Role – Funder – Budget – link to project webpage
2024-2027	Valorisation and Integration of Extractive Waste towards the Sustainability of Raw Materials Industry (ValorWaste), ERA-MIN3 2023, 100000 EUR, Scientific Board member, <a href="https://valorwaste.ase.ro/">https://valorwaste.ase.ro/</a>
2020-2022	Big data solutions in demand side management enhancing market strategies and settlement for distribution grid operators (BIGDATA4GRID), PN-III-P2-2.1-PED-2019-1198, 462PED/28.10.2020, 600000 RON, Scientific and technical board member, <a href="https://simonaoprea.ase.ro/research/bigdata4grid/">https://simonaoprea.ase.ro/research/bigdata4grid/</a>
2019-2022	Multi-layer aggregator solutions to facilitate optimum demand response and grid flexibility (SMART-MLA), Funding agency: ERA-NET Co-fund under H2020, UEFISCDI, PNIII European and International Cooperation H2020, ERANET H2020, , Contract 71/2018, 169000 EUR, Scientific team leader: <a href="https://smart-mla.stimasoft.com/">https://smart-mla.stimasoft.com/</a>
2016-2018	Informatics solutions for electricity consumption analysis and optimization in smart grids (SMART-OPTIM), Funding agency: UEFISCDI, PN-III-P2-2.1-BG-2016-0286, BRIDGE Grant, Partners: ASE (Romania)-coordinator, MET (Romania), Romanian-American University (Romania), Contract 77BG/2016, 100000 EUR, member, <a href="https://sites.google.com/a/csie.ase.ro/smart-optim/">https://sites.google.com/a/csie.ase.ro/smart-optim/</a>

### Other relevant professional experiences

(e.g. institutional responsibilities, organisation of scientific meetings, membership in academic societies, review boards, advisory boards, committees and major research or innovation collaborations, other commissions of trust in public or private sector)

Year	Description - Role
2023 – present	Member of the Scientific Council of the Doctoral School in Economic Informatics, ASE
2022- present	Expert for ESF Science Connect
2023- present	Member of the International Editorial Review Board of the <i>Oeconomia Copernicana</i> Journal (Q1 Business and International Management): <a href="https://journals.economic-research.pl/oc/about/editorialTeam">https://journals.economic-research.pl/oc/about/editorialTeam</a>
2023- present	Member in the Technical Committee 6.3. Power and Energy Systems of the International Federation of Automatic Control (IFAC) : <a href="https://tc.ifac-control.org/6/3/members/overview">https://tc.ifac-control.org/6/3/members/overview</a>
2021- present	Guest Editor for the following journals: Sensors, Electronics, Sustainability
2010 – present	Editor in Chief - Database Systems Journal, <a href="http://dbjournal.ro">http://dbjournal.ro</a>
2010 – present	Director of the Center of Excellence in Data Science, ASE Bucharest, <a href="https://eertis.eu/ersv-2200-000m-8590">https://eertis.eu/ersv-2200-000m-8590</a>
2014- 2016	Expert evaluator at UEFISCDI, Romania

### Awards

Year	Award
2024	“Mattei Dogan” Award in Social Science and Economy, Research Team, Romanian Research Gala, <a href="https://www.mcid.gov.ro/gala-cercetarii-romanesti/">MINISTRY OF RESEARCH, INNOVATION AND DIGITALIZATION</a> , <a href="https://www.mcid.gov.ro/gala-cercetarii-romanesti/">https://www.mcid.gov.ro/gala-cercetarii-romanesti/</a>
2017	“Research of the year” Award, Excellence Gala, Bucharest University of Economic Studies
2021, 2022, 2023	<i>Opera Omnia</i> Awards for scientific publications in Q1, Bucharest University of Economic Studies
2020, 2021, 2023	<i>Georgescu-Roegen</i> Awards for scientific publications in Q2, Bucharest University of Economic Studies
2017- 2023	Awarding of research results for scientific publications in Q1, Q2 – Web of Science articles PRECISI-2017, PRECISI-2018, PRECISI-2019, PRECISI-2020, PRECISI-2021, PRECISI-2023, The Executive Unit for the Financing of Higher Education, Research, Development and Innovation (UEFISCDI)

### Recent articles:

1. Bâra A., Oprea, SV, Embedding the Weather Prediction Errors (WPE) into the PV Forecasting Method using Deep Learning. *Journal of Forecasting*, Wiley, 2024

2. Oprea, SV, Bâra A., On-grid and Off-grid Photovoltaic Systems Forecasting using a Hybrid Meta-learning Method, *Knowledge and Information Systems*, Springer, 2024
3. Bâra A., Oprea, SV, A Value Sharing Method for Heterogenous Energy Communities Archetypes, *iScience*, Volume 27, Issue 1, 2024, 108687, ISSN 2589-0042, <https://doi.org/10.1016/j.isci.2023.108687>, *iScience*, 2024
4. Bâra A., Oprea, SV, Enabling Coordination in Energy Communities: A Digital Twin Model, Volume 184, January 2024, 113910, *Energy Policy*, <https://authors.elsevier.com/a/1iAus14YGpcuM>, Elsevier, 2024
5. Oprea, SV, Bâra A., A stacked ensemble forecast for photovoltaic power plants combining deterministic and stochastic methods. *Applied Soft Computing*, Volume 147, November 2023, Page 110781, <https://doi.org/10.1016/j.asoc.2023.110781>, Elsevier, 2023
6. Bâra, A., Oprea, SV. & Tudorică, B.G. From the East-European Regional Day-Ahead Markets to a Global Electricity Market. *Computational Economics* (2023). <https://doi.org/10.1007/s10614-023-10416-0>
7. Bâra, A., Oprea, SV. Intelligent system to optimally trade at the interference of multiple crises. *Applied Intelligence* (2023). <https://doi.org/10.1007/s10489-023-04823-x>, Springer, 2023
8. Oprea, S-V., Bâra, An Edge-Fog-Cloud Computing Architecture for IoT and Smart Metering Data, *Peer-to-Peer Networking and Applications*, Springer, 2022
9. Oprea, S-V., Bâra, A., Mind the gap between PV generation and residential load curves: Maximizing the roof-top PV usage for prosumers with an IoT-based Adaptive Optimization and Control Module, *Expert Systems with Applications*, Volume 212, February 2023, 118828, <https://doi.org/10.1016/j.eswa.2022.118828>
10. S.V. Oprea, Bara, A, Ultra-short-term forecasting for photovoltaic power plants and real-time key performance indicators analysis with big data solutions. Two case studies – PV Agiea and PV Giurgiu located in Romania, *Computers in Industry*, Volume: 120, Article Number: 103230, DOI: 10.1016/j.compind.2020.103230, September 2020

**Recent patent applications:**

- Bâra, A., Oprea, SV., Tor OB, Preotescu D., SISTEM INFORMATIC INTEGRAT ȘI METODE DE MANAGEMENTUL CONSUMULUI ȘI PRODUCȚIEI DE ENERGIE ELECTRICĂ PENTRU SIMULAREA ȘI TRANZACȚIONAREA PE PIETELE DE ENERGIEI ELECTRICĂ, A/00549/21.01.2021, BOPI 09/2021