

Zita Maria Almeida do Vale

Institutional address

Polytechnic of Porto – School of Engineering (ISEP/IPP)
Rua Dr. António Bernardino de Almeida, 431, 4200-072 Porto, Portugal

Academic degrees

| Year | Academic degree | Institution |
|------|-----------------------------------------------------------------------------------|------------------------------------------------------|
| 2003 | AGREGAÇÃO-high-level maturity title in Portugal (Energy - Electrical Engineering) | Faculty of Engineering of University of Porto (FEUP) |
| 1993 | PhD (Electrical and Computer Engineering) | Faculty of Engineering - University of Porto (FEUP) |
| 1986 | LICENCIATURA-(Electrical Engineering) 5 years program (BSc+2 years) | Faculty of Engineering - University of Porto (FEUP) |

Teaching positions

| Period | Position | Institution |
|-------------------------------------------------------------------------|--------------------------------------------------|---------------------------------------------------------|
| from 27 th January 2017 to present | Full Professor (Principal Coordinator Professor) | Polytechnic of Porto – School of Engineering (ISEP/IPP) |
| from 14 th October 2003 to 27 th January 2017 | Coordinator Professor with Agregação | Polytechnic of Porto – School of Engineering (ISEP/IPP) |
| from 2 nd October 1998 to 14 th October 2003 | Coordinator Professor | Polytechnic of Porto – School of Engineering (ISEP/IPP) |
| from 28 th September 1993 to 1 st October 1998 | Auxiliary Professor | Faculty of Engineering - University of Porto (FEUP) |
| from 29 th September 1988 to 27 th September 1993 | Assistant | Faculty of Engineering - University of Porto (FEUP) |
| from 29 th September 1986 to 28 th September 1988 | Intern Assistant | Faculty of Engineering - University of Porto (FEUP) |
| from 3 rd April 1985 to 28 th September 1986 | Teaching Monitor | Faculty of Engineering of University of Porto (FEUP) |

Supervision of MSc and PhD theses

| | Total | Concluded |
|------------------------------------------|-------|-----------|
| Supervising/co-supervising of PhD theses | 25 | 17 |
| Supervising/co-supervising of MSc theses | 48 | 45 |

Research and Development Areas of Interest

Zita Vale works in the area of Power Systems, with special interest in network planning and operation. She has been working in the application of Artificial Intelligence techniques to Power Systems since 1988. She has been involved in several projects involving the development and use of Knowledge-Based systems, Multi-Agent systems, Genetic Algorithms, Neural networks, Particle Swarm Intelligence, Constraint Logic Programming and Data Mining. The main application fields of these projects are:

- Smart Grids, accommodating an intensive use of Renewable Energy Sources, Distributed Energy Resources (DER) and Distributed Generation (DG), addressing the management of energy resources, the impact of DER on electrical networks, the negotiation of DER in electricity markets, demand response, and electric vehicles, including the ones with gridable capability (V2G).
- Electricity markets, addressing prices and tariffs, decision-support for market participants, ancillary services, derivatives market, pricing and market simulation.

She is the Director of GECAD - Knowledge Engineering and Decision-Support Research Center, a research center with more than one hundred researchers, settled at ISEP/IPP. She is a coordinator researcher of GECAD where she coordinates the Power and Energy Systems group.

Participation in research projects

- Total number of projects: 53
- Coordination of 21 projects
- Coordination of 3 international projects
- 13 international projects
- Coordination of the Portuguese team in 10 international projects
- Work package (WP) leader of 8 WPs in international projects
- 9 ongoing projects

Scientific Publications

| Publication Type | Total |
|--------------------------------------|------------|
| International Scientific Journals | 103 |
| Book Papers and Chapters | 79 |
| International Scientific Conferences | 523 |
| Portuguese Journals | 17 |
| Portuguese Scientific Conferences | 34 |
| Other | 50 |
| | 806 |

Other relevant responsibilities

| | |
|-----------------------------------------------------------------------------------------------|-------------------------------------------|
| IEEE Power and Energy Society (PES) Intelligent Systems Subcommittee | Secretary, 2010-2011 |
| IEEE Power and Energy Society (PES) Intelligent Systems Subcommittee | Vice-chair, 2012-2013 |
| IEEE Power and Energy Society (PES) Intelligent Systems Subcommittee | Chair, since 2014 |
| IEEE PES Working Group (WG) Data Analysis and Mining in Power Systems | Chair, since 2009 |
| IEEE PES Task Force on Open Data Set | Chair, since 2016 |
| ISAP - Intelligent Systems Applications in Power | President of the ISAP Council, since 2017 |
| ISAP - Intelligent Systems Applications in Power | Secretary of the ISAP Council, 2013-2017 |
| ISAP - Intelligent Systems Applications in Power | Board of Directors, since 2013 |
| Member of the North Region Electrical Engineering Board of the Portuguese Engineers Institute | 2004 - 2010 |
| Member of the National Electrical Engineering Board of the Portuguese Engineers Institute | 2010 - 2013 |