



University POLITEHNICA of Bucharest  
Faculty of Automatic Control and Computers

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**Prof. Dr. Eng. Adina Florea**

Scientific coordinator in the domain "Computers and IT"  
Doctoral school of Automatic Control and Computers  
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**Contact:**

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**Research profile:**

- Artificial Intelligence
- Multi-agent Systems: coordination, negotiation, BDI models, learning, emotional agents
- Self-organizing systems
- Semantic-based systems: knowledge representation, semantic Web, semantic services, ontologies
- Ambient intelligence
- E-learning and E-content

**Ph.D. coordinator since 2002**

- 28 theses finalized;
- 9 ongoing theses.

**Scientific publications:** 38 monographs and book chapters; more than 250 scientific articles and conference papers.

**Research projects** (selection, in the last 5 years):

- CAMI - Artificially intelligent ecosystem for self-management and sustainable quality of life in AAL, Partners: University POLITEHNICA of Bucharest, IT Centre for Science and Technology, (Romania), Mälardalen University (Sweden), CNet Svenska AB (Sweden), Ecotopias (Denmark), Aliviate Development ApS (Denmark), ECLEXYS Sagl (Switzerland), Knowledge Society Association (Poland). International project AAL, June 2015 – May 2018, Project director Adina Florea
- Algorithm estimating the utilisation period of a browser - contract SIEN SA France, 2014-2015
- ERRIC - Empowering Romanian Research on Intelligent Information Technologies, EU FP7, 2010-2014, Project director Adina Florea

- Erasmus Mundus Master of Science Programme “Data Mining & Knowledge Management”, 2010-2014. Partners: University Lumière Lyon 2, France – CO, Technical University of Catalonia, Spain, University of Eastern Piedmont “Amedeo Avogadro”, Italy, University “Politehnica” of Bucharest, Romania, University Pierre et Marie Curie-Paris 6, France, Polytech'nantes, Polytechnic Graduate School of Nantes University, France. Project director for UPB partner Adina Florea

**Membership in professional organizations and scientific committees, editorial boards, scientific awards**

- Founding member and president of the Romanian Association for Artificial Intelligence
- Senior member of IEEE, IEEE Computer Society
- Member of IEEE Computational Intelligence Society, Head of IEEE CIS Romanian Chapter
- Member of ACM - The Association of Computing Machinery
- Member of AAAI - The Association for the Advancement of Artificial Intelligence
- Member of Open Agent Based Modeling Consortium
- Member of SRAIT – The Romanian Society for Automation and Technical Informatics

**Ph.D. research themes proposed:**

1. Intelligent agents and Multi-agent Systems: coordination, automated negotiation and dynamic reconfiguring mechanisms and algorithms; development of Belief-Desire-Intention models; service-oriented agents; emotional agents
2. Self-organizing systems, machine learning, swarm intelligence
3. Semantic-based systems; knowledge representation and reasoning; semantic Web; developing agents that offer semantic web services to support different aspects of business processing and enterprise interoperability
4. Cognitive computing systems and applications
5. Ambient intelligence: instrumenting, information acquisition and processing, decision support, applications in e-health systems, assisting aged people based on mobility patterns and people with handicaps; posture, activity and habit recognition; monitoring emergency situations