



University POLITEHNICA of Bucharest
Faculty of Automatic Control and Computers

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Associate Professor Mihnea Alexandru Moiescu

PhD. supervisor in the “Systems Engineering” domain
Doctoral School of Automatic Control and Computers
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Research profile:

1. Enterprise Architecture and Intelligent Information Systems
2. Distributed systems based on Internet of Things and Cyber Physical Systems technologies
3. Discrete Dynamic Event Systems

PhD supervisor since 2019

Scientific Activity

- 5 books
- 2 book chapters
- 18 research papers published in top journals (6 in Q1 / Q2 ranked journals),
- More than 60 research papers published in proceedings of international conferences

Research projects (2009-2019):

- 2 research projects as project coordinator, financed in national competition from UPB,
- 2 COST Actions as coordinator from Romania,
- researcher in various national and international (FP7 / H2020) research projects.

Scientific organizations and committees, editorial groups

- Romanian Society of Automatic Control and Technical Informatics (SRAIT)
- Romanian Society of Robotics (SRR)
- Romanian Coalition for Education and Engineering (CREDING)
- International Association of Computer Science and Information Technology (IACSIT)
- NetWorks European Technology Platform
- Information Systems Audit and Control Association (ISACA)
- Journal of Control Engineering and Applied Informatics (ISI)
- BMC Systems Biology (ISI)

PhD research topics:

1. *Enterprise Architecture and Intelligent Information Systems*

Doctoral research topics will address, but are not limited to, the following specific topics: Develop / integrate new ways of describing and characterizing objects in IoT in order to facilitate automatic interactions, Integrating Intelligent Objects into Organizational Process Models including adaptation of Modeling Languages (BPMN, UML ...), Interoperable Digital Twins in IoT Systems, Adaptive Context Recognition in IoT, semantic event Processing and Machine Learning for IoT Systems, Blockchain IoT applications, Development of an experimental platform that will facilitate automatic interaction between objects and integration with business processes within an organization, Integration of processes based on sensory information, Fog and Edge Computing in Enterprise Systems.

2. *Distributed systems based on Internet of Things and Cyber Physical Systems technologies*

Doctoral research topics will address, but are not limited to, the following specific topics: enterprise architecture based on IoT, IoS, Cyber Physical Systems concepts, CPS and IIoT for intelligent manufacturing and Industry 4.0, CPS and robotic systems, Critical synthesis and evaluation of CPS system architecture, modelling and analysis for the development and implementation of intelligent automated process acquisition systems, define the modelling and analysis framework for implementing automated data acquisition methods in the context of intelligent object identification systems, models for automatic identification of processes.