



University POLITEHNICA of Bucharest

Faculty of Automatic Control and Computers



Splaiul Independenței Nr.313, sector 6, cod 060042,
Bucharest , ROMANIA



Prof. Dr. Eng. Ioana FĂGĂRĂȘAN

Ph.D. coordinator in the "System Engineering" domain
Doctoral school Automatic Control and Computers
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Research profile:

- Systems theory with applications for hierarchical highly interconnected power systems
- Modelling and simulation of industrial processes
- Advanced control algorithms and structures with applications in energy field
- Intelligent systems for process management
- Diagnosis and detection of faults in industrial processes
- Advanced systems architectures for critical complex systems (smart grid, smart city, smart agriculture, environmental monitoring)
- Cyber-physical systems in the energy field

PhD supervisor from 2019.

Scientific publications:

20 monographs

20 book chapters

19 articles in journals (ISI si BDI)

70 articles and conference papers (42 ISI, 28BDI)

1 patent

Memberships in scientific organizations:

- SRAIT Bucharest (Vice-President of Bucharest Section)



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- AAIR (member) Bucharest, Romania
- IFAC (Member in TC 9.3)
- IEEE

Research projects:

- (2016-2018) Research project UEFISCDI no: 72BG/2016, PN-III-P2-2.1-BG-2016-0234, 95/5000, Advanced process management system for Intelligent Specialization in the energy field (ASID) Director: Ioana Făgărășan, Budget RON: 459.999
- (2009-2007) Research project AMCSIT 2007, PNCI II, P 5, 85/25.09.2007 : Innovation, Modular systems for simulating the control systems of industrial processes for equipping multifunctional educational platforms, Coordonator ASTECH, Director : S. TRUSCA, Partener : UPB, Director I. FAGARASAN, Budget RON: 771.176
- (2006-2005) Research project CNCISIS, AT56 / 27692/2005; 139/2006, Integrated system for computer assisted teaching, learning and testing in fault detection and diagnosis in industrial equipment, Director: I. FĂGĂRĂȘAN; Budget RON: 28.000
- (2008-2006) Research project MEC-UEFISCSU 15031/07.04.2006, CEEX - MODUL 2; Cod proiect 43, Fault tolerant control methods implemented in distributed systems, Director Ioana FĂGĂRĂȘAN, Budget RON: 100.000

Ph.D. research subjects proposed:

- Fault Detection and diagnosis in industrial processes
- Intelligent IoT based system for fault detection and diagnosis
- Process monitoring and control for complex industrial systems (smart grid systems, smart cities, precision agriculture, sustainable environment or cyber-physical systems).
- System analysis and decision support systems
- Event-based and self-triggering control systems
- Modelling and control of systems with fractional order