



Prof. Em. Dr. Eng. h.c. Sergiu Stelian ILIESCU

System Engineering PhD Adviser
Computer Science PhD School
University Politehnica of Bucharest



Contact:

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Research areas:

- Computer aided design with application in energy;
- Simulation of analog and digital processes and automatic control systems;
- Automation of complex processes by process computers and PLCs;
- Theoretical approach of control systems;
- System analysis of informatics control systems
- International reviewer for various competitions of research projects.

PhD Adviser from 1996:

- 30 completed theses
- 14 in progress theses

Scientific publications:

- 26 articles Thomson Reuters Web of Science indexed; 6 Hirsch factor;
- 19 journal articles indexed in international data bases;
- 29 journal articles indexed in national data bases
- 86 independent citation
- 47 international conference articles published in proceedings;
- 24 national conference articles published in proceedings;
- 4 books and chapter book published in international publishing houses;
- 39 books and chapter book published in national publishing houses;
- 1 patent and 1 patent application submissions;
- 2 processes and technologies (innovations and rationalizations)

Research projects:

The PhD Adviser has participated in 35 research projects of which, over the past decade, he was responsible/project director in 6 of them.



Management positions / membership in scientific organizations, committees and editorial boards

- **September 1968-prezent** – Professor, Assistant professor, Teaching assistant – Research and teaching activity
- **2005-2008** - Personal Adviser of the Secretary of State / Chairman NASR, Ministry of Education, Research, Youth and Sports - National Authority for Scientific Research (NASR)
- **1997-2000** - CEO, Chairman / President National Informatics Commission / National Agency for Communications and Information
- **1966-1968** - Project engineer/ Institute for Studies and Power Engineering - Institute of Power Studies and Design
- **1965-1966** - Engineer execution and commissioning / Deputy dock IMIA (Assembling Automation Equipment Company) Bucharest

- SRAIT Bucharest 1991 (General Secretary, President Branch Bucharest);
- AAIR (Member) Bucharest, Romania, 2011;
- IFAC (Member in TC 6.3), Romania (Power Plans and Power System), 2011;
- IEEE – Romania;
- Member in: AGIR, AOS, APER;
- Member of the "Engineering, Computer and Information Technology" Committee for granting the PhD title in the CNATDCU;
- Founding member: Romanian Wiki Foundation, INFOR Federation alma mater
- Coordinator of the 2001-2004 medium-term strategy in ICT;
- Information Society Forum and member ISF- JHLC - Joint High Level Committee, besides the Directorate "Information Society" of the EU (1998-2000);
- Representative of the UNESCO Intergovernmental Informatics Romania Program in 2000;

Doctoral research topics proposed:

- Modelling, simulation, implementation and testing of advanced technological paradigms for industrial processes, focusing on energy application.
- New concepts of management and optimization of energy processes: smart grids, virtual power plants, cloud computing, etc.
- Complex management systems - Cyber Physical Systems / Industry 4.0 with application in the energy sector.
- The concept of critical structures in the management of industrial processes.
- Applications of the concept of Internet of Things (IoT) in the energy sector.