

Curriculum Vitae

Elena Sarri

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Dr. Elena Sarri is a Lecturer with the Department of Electrical and Electronics Engineering (EEE) of the University of West Attica (UNIWA). She obtained a Diploma in Physics from the UOA after graduating from the Varvakeio High School, a 2 year MPhil degree in Electronics and Radioelectrology, from the Depts. of Physics and Informatics the National & Kapodistrian University of Athens and her PhD Thesis in Electrical and Computer Engineering from the National Technical University of Athens. After receiving her PhD degree she worked for over a decade as a senior research associate with the Control and Decision Theory Laboratory, at the Dep. of Electrical and Computer Engineering (ECE) of the National Technical University of Athens (NTUA). She has an extended experience in teaching and research activities in the academic institutions of National and Kapodistrian University of Athens, National Technical University of Athens, Technological Education Institute of Piraeus. Prior to her PhD thesis she worked as a telecommunication engineer at the Dept. of Design and Development of Networks and New Technologies of Cosmote S.A. She has also worked in a large number of research and development projects in collaboration with academic institutions as well as the private sector. Her research activities include several areas such as (in chronological order): optics, telecommunication engineering, electronics, analog filter design, biomedical engineering, techno-economic evaluations, and stochastic optimization algorithms. Her current research interests are in the area of theoretical and applied problems in stochastic optimization, mathematical modelling, dynamic decision making under uncertainty, for telecommunication systems, biomedical engineering problems, transportation problems, fleet management, techno-economic analysis and evaluation

Educational Record:

2002-2007	PhD in Electrical and Computer Engineering , National Technical University of Athens, Department of Electrical and Computer Engineering PhD Thesis: "Modelling and Techno-Economic Evaluation of Telecommunication - Satellite Services using Optimization Techniques"
1998-2001	MPhil in Electronics and Radioelectrology , National and Kapodistrian University of Athens, Departments of Physics and Informatics MPhil Thesis: "Optical Cross-talk in Multilayer Waveguides for WDM Networks"
1994-1998	BSc in Physics , National and Kapodistrian University of Athens, Department of Physics Diploma Thesis: "TM Modes at an Abruptly Terminated Asymmetrical Slab Waveguide which consists of three layers"

Teaching Experience:

2019-...	Lecturer, University of West Attica (UNIWA), Department of Electrical and Electronics Engineering, School of Engineering
2002-2019	Teaching assistant, "Control Systems", "Advanced Methods for Control Systems" "Stochastic Control", National Technical University of Athens, Department of Electrical and Computer Engineering, Division of Signals, Control and Robotics
2013	Teaching assistant, "RF Electronic Circuits Design", Technological Education Institute of Piraeus, Department of Electronic Engineering
2012-2013	Teaching assistant, "Stochastic Signals and Systems", Technological Education Institute of Piraeus, Department of Electronic Engineering
2009-2010	Adjunct Lecturer, "Filters Analysis", Technological Education Institute of Piraeus, Department of Electronic Engineering
2000-2018	Teaching assistant, "Design of Electronic Filters", Technological Education Institute of

	Piraeus, Department of Electronic Engineering
1999-2000	Teaching assistant, "Filters Analysis", Technological Education Institute of Piraeus, Department of Electronic Engineering
1998-1999	Teaching assistant, Division of Electronics, National and Kapodistrian University of Athens, Department of Physics

Employment History:

2007-2019	Senior Researcher, Control and Decision Theory Laboratory, National Technical University of Athens, Department of Electrical and Computer Engineering
2002-2007	Technical manager, project "Go-Online", Operational Programmes Information Society and Competitiveness, 3rd European Union Support Framework, Technological Education Institute of Piraeus, Department of Electronic Engineering
2002	Consultant, General Secretariat for Research and Technology, Ministry of Development Greece
2000-2001	Researcher, "Techno-economic Evaluation of 3G Mobile Networks", National and Kapodistrian University of Athens, Department of Informatics
2000-2001	Telecommunication Engineer, Dept. of Design and Development of Networks and New Technologies, COSMOTE MOBILE TELECOMMUNICATIONS S.A.

Research and Development Projects:

2000-2001	"Action Plan for the Information Society in Attica, ATHINA", NKUA
2001	Software development, "Microwave antenna electromagnetic measurements", NKUA
2002-2003	"Game theory in Telecommunications", Institute of Communications and Computer Systems (ICCS), associated with the School of Electrical and Computer Engineering, National Technical University of Athens, supervised by the Hellenic Ministry of Education
2003-2004	"Business Plan of Hellas Sat", Greek Satellite Operator
2003	Development Programme of the Department of Electrical and Computer Engineering, National Technical University of Athens, General Secretariat for Research and Technology, Ministry of Education, Lifelong Learning and Religious Affairs
2004-2006	Techno-Economic Evaluation of modern Telecommunications Services, "Protagoras" Research Project, National Technical University of Athens
2005-2006	Web page design and implementation, for the courses of the Control and Decision Theory Laboratory
2005	"Techno-Economic Evaluation of Satellite Services", Institute of Communications and Computer Systems (ICCS)
2005-2006	"Software development for Decision Risk Analysis", Institute of Communications and Computer Systems (ICCS)
2005-2007	"Support actions for system design of options trade, transmission and monitoring of greenhouse gases", Ministry of Development
2006	"Energy Efficiency at Regional Level, Arkhangelsk, Astrakhan and Kaliningrad, Russian Federation", Institute of Communications and Computer Systems (ICCS)
2006-2008	"Optimal Energy Control of a Water-Pump System", Institute of Communications and Computer Systems (ICCS)
2007	"Support to the projects of lab financed by the EC", National Technical University of Athens
2007-2009	Database Administrator, Secretariat of the Department of Electrical and Computer Engineering, National Technical University of Athens
2008	Development of a biomedical prototype, for Mastoscopia S.A.
2010	"Integrated Service for the Distribution of Academic Resources to students", Institute for the Management of Information Systems (IMIS)
2010	"Sign Language Recognition, Generation and Modelling with Application in Deaf Communication", National Technical University of Athens
2011-2012	Design of Integration Services for Unlicensed Buildings, for the Technical Chamber of Greece
2012-2014	"MACOMSYS-Mathematical Modeling of Complex Systems with Applications to Biomedicine, Physics and the Technology of Materials", Action "Thales", University of Patras, Greece
2013-2014	"Research and Development of a Multicriteria Selection Model for Energy Producers", Greek

	Regulatory Authority for Energy (RAE),
2013-2015	"HEPHAESTUS-Towards Next Generation Intelligent Energy Systems", NSRF Action "Aristeia", University of Thessaly, Greece
2013-2014	System Design for Creation Management and Auditing the Electronic Identity of Buildings, for the Technical Chamber of Greece
2015	"Research and Development of a Probabilistic Approach integrated in a Prototype Platform for Automatic Identification System (AIS) Anomalies Detection in Marine Traffic", Interoperability Systems International (ISI) Hellas S.A.
2017	"Hardware, software and audit control mapping of OPAP's ground and online games", Audit Control Committee of OPAP S.A.

Publications:

Journals:

- G. Latsas, A.B. Manenkov, I.G. Tigelis, E. Sarri, "Reflectivity Properties of an Asymmetrical Slab Waveguide for the case of Transverse Magnetic Modes", Journal of the Optical Society of America A, Vol. 17, No. 1, pp. 162-172, January 2000. DOI: 10.1364/JOSAA.17.000162.
- Elena Sarri, G. P. Papavassilopoulos, "A Decision Making Tool and Sensitivity Analysis for Leasing Satellite Services", International Journal of Simulation Systems, Science & Technology, Vol. 7, No. 7, pp. 66-76, October 2006.
- Hercules G. Dimopoulos, Elena Sarri, "The Modified Pascal Polynomial Approximation and Filter Design Method", International Journal of Circuit Theory and Applications, Vol. 40, No. 2, pp. 145-163 February 2012. DOI: 10.1002/cta.711.
- Elena Sarri, G. P. Papavassilopoulos, "A Mathematical Model for Deriving Optimal Leasing Policies of a Satellite Operator", Open Journal of Optimization, Vol.3, No.4, pp. 43-58, November 2014, DOI: 10.4236/ojop.2014.34005.
- N. Kakogiannis, P. Kontogiorgos, E. Sarri, G.P. Papavassilopoulos, "Multicriteria Energy Policy Investments and Energy Market Clearance via Integer Programming", Central European Journal of Operational Research, SpringerLink, April 2014. DOI 10.1007/s10100-014-0351-x.

Conferences:

- Elena Sarri, G. P. Papavassilopoulos, "Leasing Policies of a Satellite Operator: Comparison of two Methodologies", 5th International Conference on Communication Systems, Networks and Digital Signal Processing, CSNDSP 2006, July 2006, Patras Greece.
- Elena Sarri, G. P. Papavassilopoulos, "A Decision Making Tool for Assessment of Leasing Policies of a Satellite Operator", 20th European Conference on Modelling and Simulation ECMS May 2006, Bonn Germany.
- N. Ch. Kakogiannis, E. Sarri, P. Kontogiorgos, G. P. Papavassilopoulos, "Games among Long and Short Term Electricity Producers and Users", 7th Mediterranean Conference and Exhibition on Power Generation, Transmission, Distribution and Energy Conversion, MedPower 2010, November 2010, Nicosia Cyprus.
- L. Tsoukalas, M. Vavalis, C. Nikolaou, G. P. Papavasilopoulos, E. Sarri, A. Nasiakou, R. Fainti, G. and E. Houstis, "Towards Next Generation Intelligent Energy Systems: Design and Simulations Engines", 5th International Conference on Information, Intelligence, Systems and Applications, IISA2014, July 2014, Chania Crete, Greece.
- P. Kontogiorgos, E. Sarri, M.N. Vrahatis, and G. P. Papavassilopoulos, "An Energy Market Stackelberg Game solved with Particle Swarm Optimization", 6th Conference on Numerical Analysis, NumAn 2014, September 2-5, 2014, Chania, Greece.
- S. Patimanidis, I. Voulgaris, E. Sarri, G. Papavassilopoulos, G. Papavasileiou, "Maritime Surveillance, Vessel Route Estimation and Alerts using AIS Data", 24th Mediterranean Conference on Control and Automation, MED'16, June 2016, Athens, Greece.