

Prof. Apostolos Kotsialos

Professor of Complex Systems Modelling and Control, Department of Product and Systems Design Engineering, University of Western Macedonia, Greece.

Professor, engineer, and researcher with more than 25 years of international academic and professional experience spanning higher education, energy generation, intelligent transportation systems, manufacturing, optimization, and unconventional computing. Holds PhD, MSc, and Engineering Degrees from the Department of Production Engineering and Management of the Technical University of Crete.

His research combines mathematical modelling, optimization, automatic control, and computational intelligence, with applications to large-scale motorway networks, sustainable traffic management, production systems, process quality, and unconventional computing based on nanomaterials. He has participated in numerous international research projects and has served as a reviewer and editorial contributor for leading international journals, conferences, and research funding organizations.

Prior Experience

Public Power Corporation (PPC) Hellas S.A., Greece | 2017–2026

Served as Head of Operations in the Island Production Operations Division, with responsibility for the operational performance, availability, and management of electricity-generating assets across Greece's islands. Previously, served as Head of the Management Information Section of the Department of Planning and Generation Operations' Performance, supporting the management and performance monitoring of the Company's conventional generation lignite, gas, hydro, and liquid-fuel power plants.

Durham University, United Kingdom | 2005–2017

Faculty member at the School of Engineering, where he taught and developed undergraduate and postgraduate courses in traffic management, engineering optimization, manufacturing systems, robotics, quality control, inventory theory, logistics, project management, and strategic change. Participated in European and UK research projects and supervised doctoral candidates, undergraduate and postgraduate dissertations, and numerous industry-based engineering design projects. Fellow of the UK Higher Education Academy since 2008.

Technical University of Crete, Greece | 1995–2005

Member of the Dynamic Systems and Simulation Laboratory, participating in numerous European Commission-funded research projects in modelling, control, optimization, and intelligent transportation systems.

Research & Academic Recognition

His publication record includes peer-reviewed journal articles, book chapters, edited international volumes, and conference papers, with his research widely cited and recognized internationally. Has been identified among the most productive authors in the field of Intelligent Transportation Systems in a bibliometric study published in IEEE Transactions on ITS in 2016.

[Google Scholar](#)

Professional Memberships

IEEE | Hellenic Operational Research Society (HELORS) | Technical Chamber of Greece (TEE).