Publication in Scientific Journals

Academic Involvement
INESC researchers have supervised hundreds of PhD and MSc theses in the various fields of their expertise, integrating those works in the research activities of INESC.

Besides their rich experience in traditional courses, they have been also involved in new initiatives such as the MIT-Portugal programmes in Transportation Systems and Sustainable Energy Systems, as well as the Energy for Sustainability (EIS) Initiative of the University of Coimbra.

INESCC
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INESC Coimbra
Institute for Systems Engineering and Computers at Coimbra
INESC Coimbra
The Institute for Systems Engineering and Computers at Coimbra (INESC Coimbra, INESCC) is a non-profit R&D institute, affiliated with the University of Coimbra (UC), the Institute for Systems Engineering and Computers (INESC) and the Polytechnic Institute of Leiria (IPL).

Mission Statement
INESC Coimbra’s statutory mission is to perform scientific research, technological development, and knowledge integration and transfer, based on several disciplines of Engineering, Management Science and Operations Research (OR). INESCC aims at contributing to a better performance of businesses and institutions and to the progress of knowledge, by creatively combining theory and methodology, technical issues and human factors to tackle complex problems.

The Interdisciplinary Nature of INESCC
The most distinctive feature of INESCC is the interdisciplinary nature of its activities within a systems engineering framework.

The background fabric is given by the competences in OR models and methods, namely concerning multi-objective optimization and multi-criteria analysis, coupled with software engineering expertise to develop decision support systems that exploit those competences in several application domains.

INESC research team is a strongly interdisciplinary group, its members affiliated with several Universities and Polytechnic Institutes. INESCC has about one hundred researchers with backgrounds in a wide range of areas (electrical engineering, economics and management, civil and geomatics engineering, mathematics, computer science, computational mechanics, physics) providing a fertile ground for cross-fertilization and a strong interdisciplinary focus with impact on research and application fields.

These different backgrounds and scientific interests allow INESC Coimbra’s researchers to collaborate, addressing complex problems.

Engineering sciences are used to address management and performance analysis problems (e.g. planning, controlling, project analysis and system evaluation). Decision aiding techniques in the realm of management science are used to address engineering problems, such as energy planning and rational use of energy, telecommunication networks analysis and planning, teletraffic engineering, urban, regional and transportation planning, environmental management, computational mechanics.

Besides originating innovative theoretical and methodological work, these competences provide a fertile ground for research stemming both from specific problems in real-world application domains (namely in energy, telecommunications, urban/ regional planning and computational mechanics) and the integrative use of different methodologies.

INESCC Projects
The R&D activities and competences of INESC Coimbra are recognized through contracts with the major players in the energy and telecommunications sectors, companies of road infrastructure management, global management of buildings and technical facilities, intelligent sensing, software engineering, etc. Also projects in the framework of the national scientific system, as well as international cooperation, have been developed, reinforcing and extending the institute’s competences to new research avenues, and consolidating it as a renowned science centre.

Scientific Publication
A very high level of publication in international scientific journals has been maintained. INESCC researchers publish regularly in top engineering, management and OR journals, with high impact factors. The researchers are also involved in the editorial boards of international scientific journals and in the organization of technical and scientific events.

A series of “Research Reports” is available for download at INESCC’s website.