

ENTITY

Full entity name: Industrial Systems Institute, Athena RIC in ICT and Knowledge Technologies

Entity logo:



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Contact

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Entity type: Company Academia Public authority Intermediary

ITS area: Air Automotive Multimodal Rail Maritime Other

Target market Private Public Business Other

Your role in the network Member Partner SAB Other



Organisation profile

The Industrial Systems Institute (I.S.I.) is a public research institute founded in Patras, Western Greece on 1998. It is currently hosted in Patras Science Park premises. Since 2003, I.S.I. is part of the Research and Innovation Centre in Information, Communication, and Knowledge Technologies “Athena” (RC Athena), operating under the auspices of the General Secretariat of Research and Technology (G.S.R.T) of the Greek Ministry of Education and Religious Affairs.

The main aims of I.S.I. are the active participation and substantial contribution at high-technology sectors, which relate to integrated industrial systems, with the objective of increasing the competitiveness of the Greek industry, through application of state-of-the-art technologies.

I.S.I. has established strong collaborations with the industry in Greece, Europe, and the USA. It closely collaborates with the Department of Electrical and Computer Engineering and the Department of Mechanical Engineering and Aeronautics of the University of Patras. I.S.I has been involved in large-scale R&D projects funded by the European Commission and the G.S.R.T. as well as by direct bilateral agreements with the Greek industrial partners. It has a proven record of significant technology contribution at the regional, national, and European levels.



Main ITS activities: Products and projects

ISI actively participates in ITS R&D with emphasis on embedded systems, sensors and telematics, communications and networking, and enterprise integration and advanced services.

Currently, ISI is involved in project Dynacargo (Dynamic Cargo Routing on-the-Go), aiming to enhance existing fleet management systems with online optimization of truck routing by integration and processing of dynamic information from the field regarding cargo loads. Such information is collected by collaborating entities while the trucks are on the go.

The ISI experience on ITS includes R&D projects such as: ASPIS (Autonomous Surveillance in Public transport Infrastructure Systems), developing a prototype surveillance system protecting citizens in public transport infrastructures in case of terrorist attacks. The system was pilot-tested in the Paris metro (RATP) and Greek maritime transport (ANEK ship) systems; KATHODIGOS, developing an intelligent parking system for public roads based on cooperating nodes that is piloted in Patras, Greece; DROMON, developing an integrated platform for smart containers that can be located and routed in multi-modal transport scenarios (piloted in Port of Patras, Greece); METATRO, a platform for enabling smart logistics by integrating embedded systems and RFID technologies in TIR trucks; and INTERTRANSPORT, developing an integrated system for the provision and support of fleet management services, currently in active use by a cluster of multi-modal freight transporters.

