

AIA – APLICACIONES EN INFORMÁTICA AVANZADA

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Organisation profile

Aplicaciones en Informatica Avanzada, S.A. (AIA), founded in 1988, is one of the few Spanish companies working in the Consulting and Engineering of Software and IT Systems that strongly emphasises innovation. Its headquarters are located in the Parque Tecnologico del Valles (Barcelona, Spain), an industrial area specially dedicated to high technology companies. It has also delegations in USA (San Francisco), Mexico DF and Zaragoza (also in Spain)

AIA research and development activities are centred on: forecasting, optimisation, classification and Artificial Intelligence techniques and advanced software. Since its creation, AIA has satisfied the needs and expectations present in a demanding high-tech market: solving complex problems in the industry and in the business world, through the use of the techniques mentioned above, rapidly adapting state-of-the-art advances coming from the academic world.

The AIA Group has developed various powerful tools for grouping, modelling, and analysing, forecasting and distributing information and supplied unique solutions tailored to the highly specific needs for some of the most important companies in Spain, as for example, ENDESA, Union Fenosa, Red Electrica de España (REE), and Gas Natural in the energy sector; OpenBank, Bankpyme, La Caixa, Caja Madrid in the banking business; Metro de Barcelona and Ferrocarriles de la Generalitat, in the transport sector; Grupo RETEVISION, Amena (now Orange Spain) in the Telecomm business; and around the world (as example in USA, Italy, Mexico or Brazil).

Areas of Technological Specialization: Artificial Intelligence, data analysis and complex modeling. AIA has a vast experience in the Energy and Financial Services sectors.

Main Services in National & European Project Management: AIA is currently participating in one EU funded project. EMILI (Emergency Management in Large Infrastructures). AIA is responsible of modelling the electricity network and develop alarms interpretation algorithms to support real-time decision making.

Main Green Cars activities: Products and Projects

AIA main involvement in “Green Cars” R&D projects:

- In the Spanish “CENIT Framework”: 1. Project “**VERDE**” is aimed to the development of new electric-based vehicles, including all their main components, and to their impact in the electric infrastructure (V2G). 2. Project “**ENERGOS**”, focused in Smart Grids, also takes into account the future influence of electric vehicles scenarios
- In the Catalan regional “Nuclis Framework”: Project “**BattMAN**” is oriented to provide a Spanish alternative to Battery Manufacturing oriented to electric vehicles.

AIA’s CAPABILITIES aligned with the “GREEN CARS INITIATIVE”: AIA can develop specific intelligent models oriented to: battery management, electric distribution in the vehicle, interaction between vehicle and grid, impact of the massive introduction of electric vehicles in the distribution and transport networks.

AIA can effectively contribute to “Green Cars” with R&D in the following areas: **Control system of the electric distribution network within the car. Energy optimization. V2G intelligent interaction.**