



## Control and Automation

Development of **Advanced Distributed Control Architectures or Systems** adapted to client needs, allowing the user to integrate in the same application hardware and software components from different suppliers with the following main advantages:

- Reliability and high speed of response
- Flexibility and Modularity
- Scalability and high information management capacity

### Possible Scopes:

- Hardware, based on intelligent instrumentation (PAC, PLC, DCS) from main market brands (Siemens, ABB, Honeywell, Emerson, Rockwell, Phoenix Contac, etc.)
- Software, based on SCADA, MES solutions and/or own developments, including Client-Server architecture trough OPC and Web environment. Regardless of the supplier, this approach enables the design, modification and extension of system monitoring, control and management

In addition, **Artificial Intelligence control software** is developed in the following fields and purposes:

- Neural Networks: process modeling and systems of signal quality assurance
- Genetic algorithms: optimization problems
- Fuzzy logic: control optimization
- Expert Systems: advanced multivariable control routines