

Test Facility 4 . Advanced Control Systems Laboratory (ACSL)

Advanced Control Systems Laboratory is oriented to research and applications in the area of real-time control and simulation. In the area of the proposed research ACSL has expertise in control of small water turbines and huge expertise in the area of modeling of many kinds of objects including power generators. ACSL has expertise in computerized modeling (fully numerical and mixed numerical and electronics) of objects for testing and experimental purposes. New trends in the research in the area of modeling are oriented to base on FPGAs&fast computers (incl. DSPs) models. Infrastructure includes number of specialized computer equipment for modeling industrial objects (based on SBC, FPGAs, DSPs and RISC), development systems for abstract models representation, implementation and testing.

Proposed services:

- Research of methods and models for distributed systems representation.
- Research of technology for implementation of systems models on computer, computerized and computer controlled equipment.
- Real-time software for fast and distributed process control and simulation.
- Power-line communications.
- Organization of training courses for embedded and real-time systems.



Current researchers

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