

# Pollack Mihály Faculty of Engineering and Information Technology IT and Electrics

## Department of Autonomous Systems

### RESEARCH AREAS

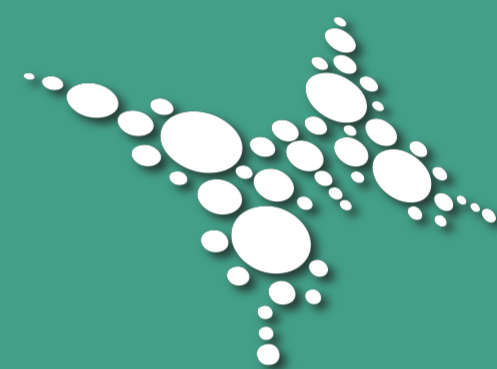
- Complexity management of large-scale systems (matter-energy networks)
- Monitoring and control system development for industrial service companies:
  - GIS model development
  - mathematic model and computer simulation of energy network
  - development of data-integrated software system
  - control strategies
  - development of energy loss prevention system
- IT of autonomous systems (data collection, signal processing and visualization, processing techniques, controlling algorithms, PLC programming, robot control)
- Artificial intelligence applications (handling uncertain knowledge, Fuzzy logic control)

### PRODUCTS & SERVICES

- Human - machine interface algorithms (imaging and shape recognition, robotics and GIS applications)
- Proportional measurement of regional network steam consumption for defining the precise energy parameters of wet steam (University of Pécs registered know-how and software)

### SPECIAL INSTRUMENTATION, LABORATORY

- 7 applied IT laboratories
- Processing computer, measurement data collecting system
- Automatics and robotics equipment
- Thermal camera



#### RESEARCH GROUP'S LEADER:

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