



LABORATORY OF APPLIED INFORMATICS

Main objectives and activities of the laboratory

The knowledge and experience in the field of information technology of the individual members of the laboratory enables us to create a coherent chain for collecting and processing data from the creation of smart sensor networks, collecting and storing data, their evaluation using machine learning methods and applying the results in intelligent systems.

Professional focus of the laboratory

- embedded devices, sensor networks, IoT,
- data processing and evaluation, including the application of machine learning methods,
- autonomous pilots, autonomous machine movements,
- web services and application development.

Specific equipment

- computational cluster, powerful graphics cards for artificial intelligence systems and neural network training,
- well-equipped HW Laboratory for embedded software development,
- development tools: Python Scipes, Numpy, SciKit, TensorFlow, etc., Matlab and other development environments.

Offered technologies and expertise

- development of embedded and IoT hardware and software,
- application of neural networks and other machine learning methods for data processing,
- development of systems for autonomous machine motion control.

