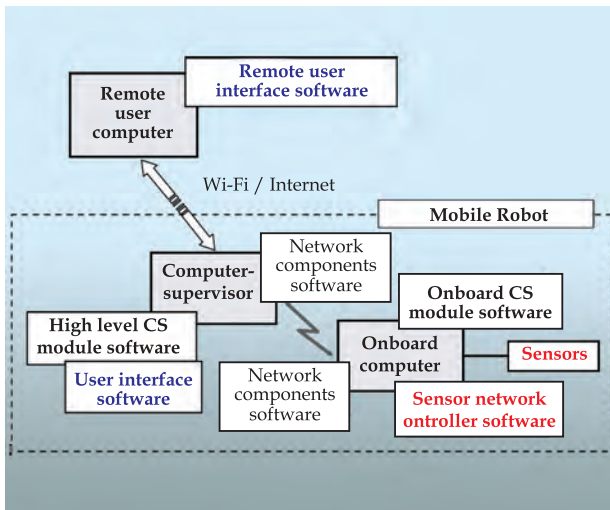
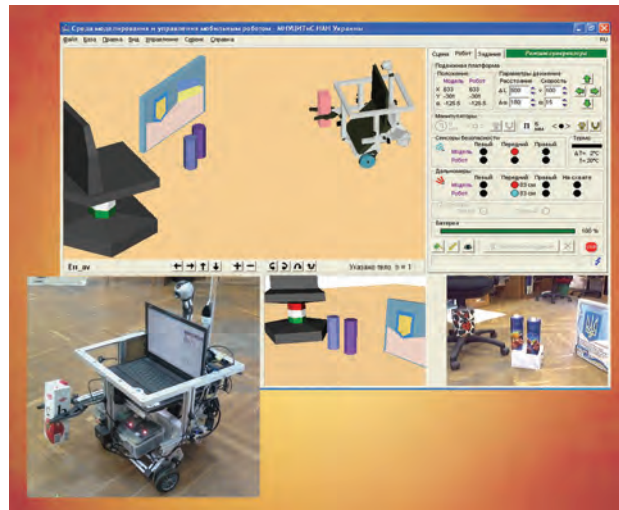


# INFORMATION TECHNOLOGY FOR MULTIFUNCTIONAL AUTONOMOUS MOBILE ROBOT CONTROL



Software structure of multifunctional autonomous MR control system (CS)



Experimental multifunctional autonomous MR with intelligent control

## Areas of Application

The technology can be used in mobile robots (MR) for indoor patrolling and inspection; physical and information assistance, including assistance to people with disabilities; laboratory training complexes for practical lessons and research

## Specification

The technology provides execution of autonomous complex tasks and accumulation of information about the surrounding objects by MR in uncertain environment; user communication with MR via easily perceived images and acoustic messages using remote access tools; and performance of tasks by MR team

## IPR Protection

IPR1

## Advantages

Original concept of intelligent control activating subsystem configuration; two-module principle of information processes "environment perception ↔ goal-oriented behavior" like in the biological systems; complete complex of information technology software solutions for MR control system – from the bottom level of control up to the advanced user interface

## Stage of Development.

### Suggestions for Commercialization

IRL3, TRL2

Customization of software solutions for autonomous robot control system and installation on the multifunctional indoor MR, upon request

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