Engineering Applications of Intelligent Information Processing and Control Technique

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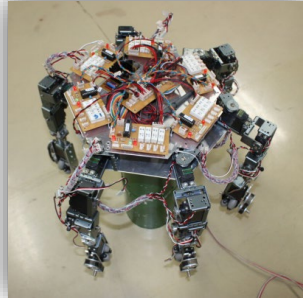

Wind Turbine

Power assist suit

Electric wheelchair

Multi-legged robot

Electric Vehicle

Pesticide spraying robot

Environmental monitoring

Content:

  In recent years, demands for higher performance and added value in industrial and life support equipment that is designed to coexist with humans has been growing. In order to satisfy these demands, we are conducting research on the application of intelligent information processing technology based on a bio-inspired approach. The main research themes are as follows, and we are promoting the realization of the elemental technologies obtained in the research process through collaboration research.

◆ Prediction of wind and solar power output based on weather prediction models

◆ Control of automatic driving systems and cooperative control of swarm mobile robots

◆ Motion control for legged robots and robot manipulators

◆ Safe driving support system for electric wheelchairs

◆ Development of various agricultural support robots

Keywords：intelligent control, robot, wind energy and photovoltaic power generation, rehabilitation system

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