Swarm-bot: a novel type of self-assembling robot
Self-reconfigurable robot with ATRON modules
Universal FPGA-microcontroller module for autonomous minirobots
Seeing empty space in an unknown environment without silhouettes
SubSim: an autonomous underwater vehicle simulation package
Toward micro wall-climbing robots using biomimetic fibrillar adhesives
Teleworkbench: a teleoperated platform for multi-robot experiments
Teleoperation of a mobile autonomous robot using Web services
Bluetooth for autonomous mini-robots and scatternet formation
Teleoperation of a mobile robot under office automation floors with visual assistance
Developing a goal keeper for simulated RoboCup soccer and its performance evaluation
An action rule discovery technique from simulated RoboCup soccer logs
Adapting recognition of shootable situations by learning from experience and observation in a RoboCup simulated soccer game
Getting closer: how simulation and humanoid league can benefit from each other
Evaluation for selecting method using reinforcement learning with hand-coded rules in RoboCup soccer agents
Yumekobo: an effective educational system for RoboCup
A method of sensing own states for tele-operating aibos at ruined homes
Trajectory generation for a mobile robot by reinforcement learning
Multi-layered fuzzy behavior control method for autonomous soccer robot with MOVIS
FPGA-based object detection in robot soccer application
Robot soccer KheperaSot league: challenges and future directions
What robot soccer can contribute to education and research - some lessons learned
Coevolutionary algorithm for behavior acquisition of soccer robots
Relation between contour integration and figure-ground separation
How the early visual system extract angles and junctions embedded within contour stimuli?
Neural correlate of depth cue integration studied with MEG
Coding of 3D curvature in the parietal cortex (area CIP) of Macaque monkey
A study of orientation selectivity of TAM network incorporated receptive field structure
Evolutionary recognition of corridor and branch using adaptive model with layered structure
A direct localization method using only the bearings extracted from two panoramic views along a linear trajectory
Early results in vision-based map building
Prediction of fish motion by neural network
Visual homing with learned goal distance information
A low cost controller board for teaching robotics
Robotics and robotics education with Smalltalk
Education for creativity by making small line trace robot in department of HAIS, University of Fukui p. 243

Education using small humanoid robot p. 248

Self-organization of spiking neural network generating autonomous behavior in a miniature mobile robot p. 255

Behavioral selection using the utility function method: a case study involving a simple guard robot p. 261

Spiking neural network for behavior learning of a mobile robot p. 267

Safety of autonomous evolutionary robots: elimination of certain behavioral patterns by complex systems analysis p. 273

Two steps towards a mechanically autonomous self-replicating system p. 281

Using mini robots for prototyping intersection management of vehicles p. 287

Embodied cognition in directed multi-agent systems - empirical study on subjective distance - p. 293

Crack detection by mobile robot with ECT sensor p. 299

Self-organized path formation by ant robots - an approach to understanding Ant's Aacts by autonomous distributed systems - p. 307

Autonomous self-assembly in a swarm-bot p. 314

Long-term interaction between seal robots and elderly people - robot assisted activity at a health service facility for the aged - p. 325

State space self-organization based on human-robot interaction p. 331

Strategies using facial expressions and gaze behaviors for animated agents p. 337

Emotion behavior learning system based on meta-parameter control of Q-learning with plural Q-values p. 344

Development of a companion robot "SELF" p. 351

An evaluation of the methods to convert non-segmented "kana" strings to "kanji-kana" strings using Markov chain models p. 360

An evaluation of the method to detect erroneous sentences of "kana-to-kanji" conversion p. 368

Cyclic gestures recognition for interactive learning of a partner robot p. 376

Traffic-like movement on a trail of interacting robots with virtual pheromone p. 383

Extending the temporal horizon of autonomous robots p. 389

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.