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Nota di contenuto	Animat Approaches for Adaptive Behaviour -- From Mirror Writing to Mirror Neurons -- How Virtual Machinery Can Bridge the "Explanatory Gap", in Natural and Artificial Systems -- Do Empirical Models of Robot-Environment Interaction Have a Meaning? -- Information Dynamics of Evolved Agents -- Taming the Beast: Guided Self-

organization of Behavior in Autonomous Robots -- Perception and Motor Control -- Slime Mold Inspired Chemical Sounding -- A Conserved Network for Control of Arthropod Exteroceptive Optical Flow Reflexes during Locomotion -- Modifying Directionality through Auditory System Scaling in a Robotic Lizard -- SCRATCHbot: Active Tactile Sensing in a Whiskered Mobile Robot -- Toward a Spiking-Neuron Model of the Oculomotor System -- An Integrated Neuromimetic Model of the Saccadic Eye Movements for the Psikharpax Robot -- Reconstructing the Acoustic Signal of a Sound Source: What Did the Bat Say? -- Simulating the Morphological Feasibility of Adaptive Beamforming in Bats -- On the Influence of Sensor Morphology on Vergence -- Adapting Preshaped Grasping Movements Using Vision Descriptors -- Multimodal Predictive Control in Crickets -- Tactile Discrimination Using Template Classifiers: Towards a Model of Feature Extraction in Mammalian Vibrissal Systems -- A Supramodal Vibrissa Tactile and Auditory Model for Texture Recognition -- Learning to Look in Different Environments: An Active-Vision Model Which Learns and Readapts Visual Routines -- Estimating Relative Positions of Multiple Objects in the Weakly Electric Fish -- From Force Control and Sensory-Motor Informations to Mass Discrimination -- The Approach Behaviour of the Hawkmoth *Manduca sexta* toward Multi-modal Stimuli: A Simulation Model -- The Indiana Experiment: Investigating the Role of Anticipation and Attention in a Dynamic Environment -- Attentional Mechanisms for Lateral Line Sensing through Spectral Analysis -- BeelP: Bee-Inspired Protocol for Routing in Mobile Ad-Hoc Networks -- Action Selection and Behavioural Sequences -- Simulating Human Table Tennis with a Biomimetic Robot Setup -- Attentional Modulation of Mutually Dependent Behaviors -- An Empirical Evidence of Braitenberg Vehicle 2b Behaving as a Billiard Ball -- Insectomorphic Robot Maneuvering on a Movable Ball -- A Study of Adaptive Locomotive Behaviors of a Biped Robot: Patterns Generation and Classification -- Navigation and Internal World Models -- Predicting Affordances from Gist -- Analyzing Interactions between Cue-Guided and Place-Based Navigation with a Computational Model of Action Selection: Influence of Sensory Cues and Training -- A Cortical Column Model for Multiscale Spatial Planning -- Why and How Hippocampal Transition Cells Can Be Used in Reinforcement Learning -- The Complementary Roles of Allostatic and Contextual Control Systems in Foraging Tasks -- Path Integration Working Memory for Multi Tasks Dead Reckoning and Visual Navigation -- Minimal Model of Strategy Switching in the Plus-Maze Navigation Task -- Learning and Adaptation -- Distributed Online Learning of Central Pattern Generators in Modular Robots -- Learning New Motion Primitives in the Mirror Neuron System: A Self-organising Computational Model -- A Computational Model of Integration between Reinforcement Learning and Task Monitoring in the Prefrontal Cortex -- Internal Models in the Cerebellum: A Coupling Scheme for Online and Offline Learning in Procedural Tasks -- eMOSAIC Model for Humanoid Robot Control -- Noisy-or Nodes for Conditioning Models -- Adaptation of Coupled Sensorimotor Mappings: An Investigation towards Developmental Learning of Humanoids -- Learning Inverse Kinematics for Pose-Constraint Bi-manual Movements -- TeXDYNA: Hierarchical Reinforcement Learning in Factored MDPs -- Learning Robot-Environment Interaction Using Echo State Networks -- A Novel Information Measure for Predictive Learning in a Social System Setting -- Evolution -- Co-development of Linguistic and Behavioural Skills: Compositional Semantics and Behaviour Generalisation -- Indirectly Encoding Neural Plasticity as a Pattern of Local Rules -- Fractal Gene Regulatory Networks for Robust Locomotion Control of Modular Robots

-- The Dependence of Braking Strategies on Optical Variables in an Evolved Model of Visually-Guided Braking -- Self-organizing Robot Teams Using Asynchronous Situated Co-evolution -- Emergence of an Internal Model in Evolving Robots Subjected to Sensory Deprivation -- Emergent Distribution of Computational Workload in the Evolution of an Undulatory Animat -- Multi-objective Evolutionary Algorithms to Investigate Neurocomputational Issues: The Case Study of Basal Ganglia Models -- Collective and Social -- Cooperative Stigmergic Navigation in a Heterogeneous Robotic Swarm -- How to Pick the Right One: Investigating Tradeoffs among Female Mate Choice Strategies in Treefrogs -- Autonomous Development of Social Referencing Skills -- A Model of Symmetry Breaking in Collective Decision-Making -- Simulation of How Neuromodulation Influences Cooperative Behavior.

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