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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Design Philosophies and Software Architectures for Robotics -- A Multimodal Human-Robot-Dialog Applying Emotional Feedbacks -- Pseudo Swarm Implementation Using Robotic Agents and Graphical Simulation -- User Identification for Healthcare Service Robots: Multidisciplinary Design for Implementation of Interactive Services -- Using a Social Robot as a Gaming Platform -- Robotic Platform: A XML-Based Extensible Robot Intelligence Architecture (XRIA) -- Social

Acceptance for Human-Robot Interaction I -- Socializing with Olivia, the Youngest Robot Receptionist Outside the Lab -- Minimal Set of Recognizable Gestures for a 10 DOF Anthropomorphic Robot -- STB: Intentional Stance Grounded Child-Dependent Robot -- Using the Interaction Rhythm as a Natural Reinforcement Signal for Social Robots: A Matter of Belief -- Case Study of a Multi-robot Healthcare System: Effects of Docking and Metaphor on Persuasion -- Learning, Adaptation and Evolution of Robot Intelligence -- State Representation with Perceptual Constancy Based on Active Motion -- Selection of Actions for an Autonomous Social Robot -- On Internal Knowledge Representation for Programming Mobile Robots by Demonstration -- A Software Framework for Multi Player Robot Games -- A Behavior Adaptation Method for an Elderly Companion Robot—Rui -- An Adaptive Information System for an Empathic Robot Using EEG Data -- Mechatronics and Intelligent Control -- Mind Robotic Rehabilitation Based on Motor Imagery Brain Computer Interface -- COSA Finger: A Coupled and Self-Adaptive Under-actuated Unit for Humanoid Robotic Hand -- A Humanoid Robot Upper Limb System with Anthropomorphic Robot Hand: GCUA Hand II -- Improving Positioning Accuracy of Robotic Systems by Using Environmental Support Constraints – A New Bionic Approach -- Nonlinear Control of a Robot Manipulator with Time-Varying Uncertainties -- Adaptive Motion Synchronization of Bilateral Teleoperation Systems with Time-Varying Communication Delays -- HRI in Assistive Technologies for People with Special Needs -- Design of Robot Assisted Observation System for Therapy and Education of Children with Autism -- Study on an Assistive Robot for Improving Imitation Skill of Children with Autism -- Developing Play Scenarios for Tactile Interaction with a Humanoid Robot: A Case Study Exploration with Children with Autism -- Development of PARO Interventions for Dementia Patients in Dutch Psycho-geriatric Care -- Short Term Effect Evaluation of IROMEC Involved Therapy for Children with Intellectual Disabilities -- Adaptive Robot Design with Hand and Face Tracking for Use in Autism Therapy -- Affective and Cognitive Sciences for Interactive Robots -- Selecting When Acting: How Human Perception Is Tuned to Action Goals and How Robotics Can Benefit from That -- The Evaluation of Empathy, Autonomy and Touch to Inform the Design of an Environmental Monitoring Robot -- Attention Determination for Social Robots Using Salient Region Detection -- Bimodal Emotion Recognition -- Objective Evaluation of Spatial Information Acquisition Using a Visuo-tactile Sensory Substitution Device -- Social Acceptance for Human-Robot Interaction II -- Can I Help You? -- A Persuasive Robotic Agent to Save Energy: The Influence of Social Feedback, Feedback Valence and Task Similarity on Energy Conservation Behavior -- Understanding Communication Patterns for Designing Robot Receptionist -- Do Social Robots Walk or Roll? -- Interaction and Collaboration -- Synthetic Skins with Humanlike Warmth -- Entrainment of Pointing Gestures by Robot Motion -- Emotiv Robotic Stewards -- Fusion and Self-adaptation of Color and Gradient Based Models for Object Detection and Localization in Applications of Service Robots -- Development of Robotic Arm Rehabilitation Machine with Biofeedback That Addresses the Question on Filipino Elderly Patient Motivation.

Sommario/riassunto

The papers in this volume were the fruitful scientific results of the Second International Conference on Social Robotics (ICSR), held during November 23–24, 2010 in Singapore, which was jointly organized by the Social Robotics Laboratory (SRL), Interactive Digital Media Institute (IDMI), the National University of Singapore and 2 Human Language Technology Department, the Institute for Infocomm Research (I R),

A*STAR, Singapore. These papers address a range of topics in social robotics and its applications. We received paper submissions from America, Asia, and Europe. All the papers were reviewed by at least three referees from the 32-member Program Committee who were assembled from the global community of social robotics researchers. This volume contains the 42 papers that were selected to report on the latest developments and studies of social robotics in the areas of human—robot interaction; affective and cognitive sciences for interactive robots; design philosophies and software architectures for robots; learning, adaptation and evolution of robotic intelligence; and mechatronics and intelligent control.
