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Disciplina	006.3 629.892
Soggetti	Artificial intelligence Software engineering Application software User interfaces (Computer systems) Human-computer interaction Computer networks Computers, Special purpose Artificial Intelligence Software Engineering Computer and Information Systems Applications User Interfaces and Human Computer Interaction Computer Communication Networks Special Purpose and Application-Based Systems
Lingua di pubblicazione	Inglese
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Nota di contenuto	Vision-Based Human-Robot Interaction and Applications -- Interaction, Control and Application Technologies of Welfare Robots -- AI Meets the Challenges of Autism -- Space Robot and Space Mechanism -- Mechanism Design, Control and Application of Reconfigurable Robots -- Autonomous Intelligent Robot Systems for Unconstrained Environments -- Rehabilitation and Assistive Robotics -- Learning from

Human Demonstrations for Redundant Manipulator -- Mechanism Design, Control and Sensing of Soft Robots -- Intelligent Perception and Control of Rehabilitation Systems -- Actuation, Sensing and Control of Soft Robots -- Actuation, Sensing and Control of Soft Robots -- Machine Vision for Intelligent Robotics -- Micro or Nano Robotics and Its Application -- Biosignal Acquisition and Analysis -- Neurorobotics -- Wearable Sensing and Robot Control -- Wearable Robotics to Characterize, Retrain, and Restore Human Movements -- Robotic Environment Perception -- Swarm Robotic Technology and System in Space and Underwater -- Medical Robot -- Intelligent Cooperation in Mobile Robots for Learning, Optimization, Planning, and Control -- Tactile Robotics -- Co-Manipulation System with Enhanced Human-Machine Perception -- Compliant Mechanisms and Robotic Applications -- Flexible or Continuum Robots in Clinical Context -- Data Processing and Image Analysis -- Advanced Key Technologies in Intelligent Interactive Robots -- Sensing and Decoding of Biosignals for Human-Machine -- Intelligent Vision and Learning -- Machine Learning in Human-Robot Collaboration -- Multimodal Sensing and Understanding -- Bio-Inspired Healthcare Robotics and Technology -- Robot Vision and Applications.

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### Sommario/riassunto

The 4-volume set LNAI 13455 - 13458 constitutes the proceedings of the 15th International Conference on Intelligent Robotics and Applications, ICIRA 2022, which took place in Harbin China, during August 2022. The 284 papers included in these proceedings were carefully reviewed and selected from 442 submissions. They were organized in topical sections as follows: Robotics, Mechatronics, Applications, Robotic Machining, Medical Engineering, Soft and Hybrid Robots, Human-robot Collaboration, Machine Intelligence, and Human Robot Interaction.

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