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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 Co-operation 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 -- DataProcessing 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.

| 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. |