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Visual and Visual-tactile Perception for Robotics -- 6D Pose Estimation Method of Metal Parts for Robotic Grasping Based on Semantic-level Line Matching -- GelSplitter: Tactile Reconstruction from Near Infrared and Visible Images -- GelFlow: Self-Supervised Learning of Optical Flow for Vision-Based Tactile Sensor Displacement Measurement -- CLOE: Novelty Detection via Contrastive Learning with Outlier Exposure --Detection and Positioning of Workpiece Grinding Area in Dark Scenes with Large Exposure -- Hardware-Free Event Cameras Temporal Synchronization Based on Event Density Alignment.-- A Structure-Responsive CNN-Based Approach for Loop Closure Detection in Appearance-Changing Environments -- Visual Sensor Layout Optimization of a Robotic Mobile Adhesive Removal System for Wind Turbine Blade Based on Simulation -- Perception, Interaction, and Control of Wearable Robots -- Kinematic and Static Analysis of Flexible Link Tensegrity Robots -- An Autoencoder-Based Feature Extraction Method Applied to the Detection of Lateral Walking Gait Phase --Sparse Adaptive Channel Estimation Based on Multi-Kernel Correntropy -- Towards Intercontinental Teleoperation: A Cloud-Based Framework for Ultra-Remote Human-Robot Dual-Arm Motion Mapping -- A Lightweight Ankle Exoskeleton Driven by Series Elastic Actuator --Simulation Analysis of Synchronous Walking Control for Centaur System -- Kinematics Analysis of the Wearable Waist Rehabilitation Robot --3D Human Pose Estimation in Video for Human-Computer/Robot Interaction -- A Real-time AGV Gesture Control Method Based on Body Part Detetcion -- Predict Hip Joint Moment Using CNN for Control --Marine Robotics and Applications -- Study on design and performance of a bionic fish driven by four IPMC fins -- Optimization of Energy Storage for A Miniature Water Jumping Robot -- Design and Research of Flatworm-inspired Marine Exploration Robot -- Coordinated Passive Maneuvering Target Tracking by Multiple Underwater Vehicles Based on Asynchronous Sequential Filtering -- Robust Tube-Based Model Predictive Control for Marine Ship-mounted Cranes -- Multi-UUV/USV Adaptive Cooperative Search Using Online State Information -- Design and Analysis of Co-Axial Twin-Propeller Trans-Media Vehicle -- Design of an Autonomous Underwater Vehicle for Targeted Water Sampling --A Novel Motion Planning Algorithm Based on RRT-Connect and Bidirectional Approach for Free-Floating Space Robot -- A Hybrid Workspace Mapping Method Based on Force Feedback for Underwater Teleoperation Systems -- A Lyapunov-based Model Predictive Virtual Vehicle Guidance for Path Following Control of Autonomous Marine Vehicles -- Overview of Technologies in Marine Robotics -- Multi-robot Systems for Real World Applications -- An MFG Online Path Planning Algorithm Based on Upper and Lower Structure -- Intelligent Scalable and Fault-tolerant Coordination Approach for Collective Construction Robots -- Performance Analysis and Configuration Optimization of a Hexapod Platform with Flexure Hinges -- Dynamic Modeling and Control of Winch-Integrated Cable-Driven Parallel Robots Using Singular Perturbation Method -- Multi-input Multi-output Sliding Mode Control with High Precision and Robustness for a 6-PSU Parallel Robot -- Efficient Trajectory Planning for Coordinated Arrival of Fixed-Wing UAV Swarm -- Spontaneous Emergence of Multitasking in Minimal Robotic Systems -- Cooperative Control of Dual-Manipulator System with Unknown Dynamic Parameters -- Disturbance Rejection Fixed Point Control of DELTA Parallel Manipulator Mounted on Autonomous Underwater Vehicle -- Efficient Autonomous Exploration of Unknown Environment using Regions Segmentation and VRP -- Modeling of the electromagnetic launching process for a tethered-net capturing system -- Neural Network-Based Formation Control of Autonomous

Underwater Vehicles Under Disturbance in 3D Space -- Event-Triggered Model Predictive Mean-Field Control for Stabilizing Robotic Swarm --Risk-Aware Motion Planning for Very-Large-Scale Robotics Systems Using Conditional Value-at-Risk -- Physical and Neurological Human-Robot Interaction -- An Adaptive Impedance Control Method for Human-Robot Interaction -- Design of a lower limb rehabilitation training robot based on a double four-bar synchronous motion mechanism -- Upper Limb Motion Rehabilitation Training Robot Based on A Spatial RRSS Rigid-Body Guidance Mechanism -- Mask R-CNN with attention mechanism for detection and segmentation -- Design and Variable Parameter Control Strategy of Weight Support Gait Training Robot -- CMM-based Cooperative Control Strategy of Supernumerary Robotic Limbs for Human Motion. The 9-volume set LNAI 14267-14275 constitutes the proceedings of Sommario/riassunto the 16th International Conference on Intelligent Robotics and Applications, ICIRA 2023, which took place in Hangzhou, China, during July 5-7, 2023. The 413 papers included in these proceedings were carefully reviewed and selected from 630 submissions. They were organized in topical sections as follows: Part I: Human-Centric Technologies for Seamless Human-Robot Collaboration; Multimodal Collaborative Perception and Fusion; Intelligent Robot Perception in Unknown Environments: Vision-Based Human Robot Interaction and Application. Part II: Vision-Based Human Robot Interaction and Application; Reliable AI on Machine Human Reactions; Wearable Sensors and Robots; Wearable Robots for Assistance, Augmentation and Rehabilitation of Human Movements; Perception and Manipulation of Dexterous Hand for Humanoid Robot. Part III: Perception and Manipulation of Dexterous Hand for Humanoid Robot; Medical Imaging for Biomedical Robotics: Advanced Underwater Robot Technologies: Innovative Design and Performance Evaluation of Robot Mechanisms; Evaluation of Wearable Robots for Assistance and Rehabilitation; 3D Printing Soft Robots. Part IV: 3D Printing Soft Robots; Dielectric Elastomer Actuators for Soft Robotics; Human-like Locomotion and Manipulation; Pattern Recognition and Machine Learning for Smart Robots. Part V: Pattern Recognition and Machine Learning for Smart Robots: Robotic Tactile Sensation, Perception, and Applications: Advanced Sensing and Control Technology for Human-Robot Interaction: Knowledge-Based Robot Decision-Making and Manipulation; Design and Control of Legged Robots. Part VI: Design and Control of Legged Robots; Robots in Tunnelling and Underground Space; Robotic Machining of Complex Components; Clinically Oriented Design in Robotic Surgery and Rehabilitation; Visual and Visual-Tactile Perception for Robotics. Part VII: Visual and Visual-Tactile Perception for Robotics; Perception, Interaction, and Control of Wearable Robots; Marine Robotics and Applications; Multi-Robot Systems for Real World Applications; Physical and Neurological Human-Robot Interaction. Part VIII: Physical and Neurological Human-Robot Interaction: Advanced Motion Control Technologies for Mobile Robots; Intelligent Inspection Robotics; Robotics in Sustainable Manufacturing for Carbon Neutrality; Innovative Design and Performance Evaluation of Robot Mechanisms. Part IX: Innovative Design and Performance Evaluation of Robot Mechanisms; Cutting-Edge Research in Robotics.