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Nota di contenuto	-- Advancing Closed-Chain Robot Control through Model Predictive Techniques and Virtual Breakpoints. -- Design and calibration of

puncture needle shape sensing sensor based on FBG. -- Design and Baseline Drift Compensation for Respiratory Acquisition Devices. -- Key Technologies of Cobots with High Payload-Reach to Weight Ratio: A Review. -- Memory-augmented Deep Deterministic Policy Gradient. -- Optimization of cable tension for a cable-driven parallel rehabilitation robot considering dumping judgment and pelvic motion mechanism. -- The Design of a Human-Robot Interaction System for Social Robots Assisted by Large Models. -- Evaluation of Heavy Truck Front Face Styling Imagery Based on a Multiscale Approach. -- Personalised 3D Human Digital Twin with Soft-Body Feet for Walking Simulation. -- Interactive Force Control of Supernumerary Robotic Dexterous Hand for Rehabilitation and Assistance. -- A Flexible Hydrogel-based Electroluminescent Sensing Device for Electronic Skin. -- Using a Pneumatic Tactile Steering Wheel to Enhance the Multi-Modal Takeover Request In Smart Vehicle. -- Robotic Cognitive Behavioural Therapy: rCBT. -- A Review on Social Awareness Navigation for Service Robots. -- Trust Assessment Model for Visual Image-Based Human-Robot Interaction under Known and Unknown Threats. -- Study on multimodal physiological data fusion to improve abnormal workload recognition accuracy. -- Research on pose adjustment algorithm for large components based on parallel robots. -- UI design introducing cognitive theory: application to a wrist rehabilitation robotic system. -- Agent-based Robotic Systems via Large Language Model. -- Application of preoperative digital registration on implant placement by the semi-active robot: a retrospective study. -- Controller fatigue detection based on human eye characteristics Effectiveness research. -- Design of cloud-edge-end collaborative monitoring system for lower limb rehabilitation exoskeleton. -- Accuracy analysis of robot-assisted transcrestal sinus floor elevation and simultaneous implant placement. -- Structural topology optimization for load-bearing bone scaffolds. -- Actuation Mechanisms and Functions for Medical MicroNanorobots. -- Prescribed-time Output-feedback Control of Nonlinear Robotic Systems. -- Application of DeepLab-MDA Semantic Segmentation Network in Electric Power Scenarios. -- Using Linear Channel Attention to Enhance Real-time Colonoscopy Object Detection.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th International Conference on Social Robotics, ICSR + BioMed 2024, held in Singapore during August 16-18, 2024. The 28 full papers included in this book were carefully reviewed and selected from 102 submissions. The ICSR + BioMed 2024 conference emphasized interdisciplinary innovations in Bio-inspired, Biomedical, and Surgical Robotics.