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Nota di contenuto	-- Diverse Gaussian Sampling for Human Motion Prediction. -- Multi-Scale Separable Convolution and Dilated Attention for Machinery Fault Diagnosis. -- SegmentAnything-Based Approach to Scene Understanding and Grasp Generation. -- Content-Aware Efficient Learner for Audio-Visual Emotion Recognition. -- The Impact of Synchronized Visual and Auditory Attention on Human Perception. -- CollectiveSFT: Scaling Large Language Models for Chinese Medical Benchmark with Collective Instructions in Healthcare. -- A New Multi-Axis Force Sensor for Measuring the Wheel-Terrain Interaction ahead of the Robotic Vehicles. -- Potential-field-based Motion Planning for Social Robots by Adapting Social Conventions. -- Parametrically-Designed Artificial Hand with Multifunctional Grasps. -- Tolerant Tracking Control Protocol for PMSM Based on Policy Iteration Algorithm and Fault Compensation. -- ROOTED: an Open Source Toolkit for Dialogue Systems in Human Robot Interaction. -- Educational-Psychological Dialogue Robot Based on Multi-Agent Collaboration. -- Human-Robot Pose Tracking Based on CNN with Color and Geometry Aggregation. -- Cued Speech-Integrated Audio-Visual Variational Autoencoder for Speech Enhancement. -- Semi-Supervised Speaker Localization with Gaussian-like Pseudo-labeling. -- MCCS: The First Open Multi-Cuer Mandarin Chinese Cued Speech Dataset and Benchmark. -- A Review of Human Mesh Reconstruction: Beyond 2D Video Object Segmentation. -- A Transformer-based Depression Detection Network Leveraging Speech Emotional Expression Cues. -- Am I a social buddy? A literature review on socially appealing design and implementation methods for social robots. -- Optimization-based Trajectory Planning for Autonomous Ground Vehicles. -- Alzheimer's disease detection based on large language model prompt engineering. -- Mapless Navigation in Factory Environments with Safe RL Approach. -- Video Question Answering Based on Audio-Visual Hyper Graphs. -- Synergized Twin Layer for Federated Action Recognition. -- Controllable Talking Head Synthesis by Equivariant Data Augmentation for Spatial Coordinates. -- Multi-Source-Domain Adaptation for TMS-EEG based Depression Detection. -- Structured Dialogue System for Mental Health: An LLM Chatbot Leveraging the PM+ Guidelines. -- Feature Extraction Method Based on Contrastive Learning for Dysarthria Detection. -- Flying Together with Audio and Video: Enhancing Communication for the Hearing-impaired Through an Emerging Closed Captioning Standard. -- FARD: Fully Automated Railway Anomaly Detection System. -- M-Vec: Matryoshka Speaker Embeddings with Flexible Dimensions. -- Complex instructions translation using fine-tuned Large Language Models. -- Autonomous Multi-Robot Action Planning through Controlled Robot Language. -- Omnisurface: Common Reality for Intuitive Human-Robot Collaboration. -- Grasp Intention Interpretation in Object Handover for Human-Robot Teaming. -- Leader-Follower Formation of a Car-like Robot Using ROS and Trajectory Tracking.
Sommario/riassunto	This book constitutes the refereed proceedings of the 16th International Conference on Social Robotics, ICSR + InnoBiz 2024, held in Shenzhen, China, during September 25–28, 2024. The 36 full papers included in this book were carefully reviewed and selected from 82 submissions. The theme of this year's conference was "Social Robotics: Embracing Innovation for Business", focusing on recent technological innovation in the robotic industry.