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Abstract

The proceedings contain 218 papers. The topics discussed include: human-object interaction detection based on graph model; distributed multirobot obstacle avoidance via logarithmic map-based deep reinforcement learning; a robust and novel semantic segmentation deep neural network for robotic surgery vision with a single RGB camera; highly integrated modular avionics from platform to payload for micro-satellites; software technology analysis based on wearable devices: aqsa optimizer integrating Gaussian walk and somersault strategy; revealing the influential mechanism of voice interaction with or via smart voice robots on user satisfaction; STACNoGRI: weather forecasting based on spatio-temporal adaptive convolutional GRY: a training method for face representation models in realistic scenarios; UAV obstacle avoidance based on improved artificial potential field method; dynamic state estimation method of urban electricity gas heat coupled energy network based on multiple time scales; and data flow analysis in automotive engine underpower fault detection.

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