Proceedings of SPIE - The International Society for Optical Engineering • 卷 12610 • 2023 • 3rd International Conference on Artificial Intelligence and Computer Engineering, ICAICE 2022 • Wuhan • 11 November 2022到 13 November 2022 • 代码 188293

Third International Conference on Artificial Intelligence and Computer Engineering, ICAICE 2022

文献类型
会议评论

来源出版物类型
会议录文献

ISSN
0277786X

ISBN
978-151066347-3

出版商
SPIE

资金提供机构
Academic Exchange Information Centre (AEIC) • Dalian Minzu University • Dalian Ocean University • Nanjing University of Aeronautics and Astronautics

CODEN
PSISD

原始语言
English

卷编者
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摘要

The proceedings contain 218 papers. The topics discussed include: human-object interaction detection based on graph model; distributed multi-robot 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; aquila optimizer integrating Gaussian walk and somersault strategy; revealing the influential mechanism of voice interactivity with or via smart voice robots on user satisfaction; STACnovGRU: weather forecasting based on spatio-temporal adaptive convolutional GRU: 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.