

Modeling, Simulation and Intelligent Control of Unmanned System

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In recent years, the demand for unmanned systems in land, sea, air, and space has been increasing. With the continuous development of artificial intelligence technology and intelligent control theory research, unmanned systems have become the focus of research in the society based on the strategic goal of "manufacturing power". The problems of modeling and simulation and intelligent control for unmanned systems have become the focus of current research and the future development of unmanned systems. The purpose of this session is to bring together experts, scientists and engineers throughout the world to present and share their recent research results and innovative ideas related to modeling, simulation and intelligent control for unmanned systems. The topics of this thesis include but are not limited to: guidance and intelligent control technologies for unmanned systems, distributed intelligent control for multiple unmanned systems, fault detection, fault-tolerant control technologies, modeling, simulation and intelligent control technologies for unmanned systems, semi-physical simulation, simulator technology and other related innovative applications and new research trends.

无人系统的建模仿真与智能控制

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近年来, 陆、海、空、天等领域对无人系统的需求与日俱增。随着人工智能技术以及智能控制理论研究的不断发展, 基于“制造强国”的战略目标, 无人系统已成为社会重点研究对象。针对无人系统的建模仿真与智能控制问题已成为当前研究热点及未来无人系统发展的核心。本专题旨在与世界范围内相关专家、学者、工程师一道, 共同展示和分享无人系统的建模仿真与智能控制的新思路和新成果。本专题论文主题包括但不限于: 无人系统制导与智能控制技术, 多无人系统分布式智能控制, 故障检测、容错控制技术, 无人系统的建模、仿真与智能控制技术, 半物理仿真、模拟器技术等相关创新应用及研究新趋势。