

Advanced Information Fusion Technology

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With the arrival of the information era, information is becoming an increasingly important strategic resource. The most prominent feature of the information era is the information explosion: the great variety of information, the huge amount of data, and the increasing demands for information processing. Multi-source, heterogeneous, uncertain, and massive information pose great challenges to traditional information processing theories and methods. Information fusion theory and technology for multi-source information processing have emerged at the historic moment, and have become a hot research topic on the field of navigation guidance and control, target tracking and etc. 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 advanced information fusion technology. The topics of this session include but are not limited to: multi-sensor target detection, tracking and recognition, situation and threat assessment, resource management and scheduling, data association, sensor registration and fusion, sensor network, detection and estimation, innovative applications and new trends.

先进的信息融合技术

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随着信息时代的到来, 信息正在成为越来越重要的战略资源。信息时代的最显著特征就是信息爆炸: 信息表现形式多种多样、信息数据容量十分巨大、信息处理要求日益提高。多源、异类、不确定、海量信息, 对于传统的信息处理理论与方法提出了巨大挑战, 面向多源信息处理的信息融合理论与技术应运而生, 成为导航制导与控制、目标跟踪等领域的研究热点。本专题旨在与世界范围内相关专家、学者、工程师一道, 共同展示和分享信息融合技术的新思路和新成果。本专题论文主题包含但不限于: 多传感器目标检测跟踪与识别、态势评估与威胁估计、资源管理与调度、数据关联、传感器配准与融合、传感器网络、检测与估计等方面的新方法, 相关创新应用及研究新趋势。