

Filtering and information fusion technology for complex systems

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Applications of nonlinear filters have been more and more extensive. Target tracking systems and integrated navigation systems can be affected by various complex factors, such as correlation of noises, uncertainty of system models, outliers of measurements, etc. Researches on nonlinear filters with correlative noises or constrained states have important theoretical significance and practical application prospect. In this proposed invited session, we would like to solicit research papers related to advanced filter design and estimation fusion approaches, including but not limited to maneuvering target tracking, nonlinear filtering, multi-source information fusion, etc.

复杂系统的滤波融合技术

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非线性滤波应用的范围在不断扩大，实际目标跟踪系统、组合导航系统中具有如噪声相关、模型不确定、量测异常等各种复杂因素。研究和处理噪声相关和状态受约束的非线性滤波融合方法具有重要的理论意义和实际应用前景。本专题拟征集先进滤波器设计方法和估计融合方法。内容包括但不限于机动目标跟踪方法、非线性系统滤波方法、多源信息融合方法等。

关键词：Filtering and Information Fusion, Maneuvering Target Tracking, Nonlinear Filtering