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基于模糊支持向量机的飞机飞行动作识别

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Fuzzy Support Vector Machines Based Recognition for Aeroplane Flight Action

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摘要 传统的支持向量机由两类扩展到多类问题时,出现不可分区域。针对飞行动作识别提出解决这一现象的模糊支持向量机。采用模糊支持向量机对某型飞机飞行动作进行识别。实际飞参数据(6种飞行动作模式)的识别结果表明,模糊支持向量机较传统的多类支持向量分类器在飞机飞行动作识别率上有显著提高。

关键词： 支持向量机 模糊支持向量机 飞行动作识别

Abstract： With the traditional SVMs' two-class problems extending to the multi-class problems, the unclassifiable regions exist. Flight action recognition is proposed in this paper based on the fuzzy support vector Machines(FSVMs). Six kinds of recorded flight data of flight action are recognized by FSVMs. Simulation results show that the improved FSVMs has characteristics of simpler calculation and better testing correctness than the traditional SVMs approach .

Keywords： support vector machines fuzzy support vector machines flight action recognition

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