



DECISION FUSION FOR DISTRIBUTED TARGET TRACKING USING COST REFERENCE PARTICLE FILTERING (ThuAmOR5)

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✳ Abstract :

In this paper, we consider the problem of tracking an object which moves along a certain 2-dimensional area monitored by a network of wireless sensors. We propose a novel decision fusion algorithm for target tracking based on a recently proposed sequential Monte Carlo (SMC) methodology called cost-reference particle filtering (CRPF). Computer simulations reveal the feasibility of the proposed method.