以卡門濾波器為基礎之估測融合架構 = Kalman filter-based fusion algorithm for estimation

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摘 要

多目標追蹤是雷達系統必要的架構，資料相關結合技術更是其關鍵技術，本論文提出以卡門濾波器為基礎之估測融合架構追蹤技術，應用競爭性類神經網路(Competitive Hopfield Neural Network)運算法於追蹤系統，擷取其特殊的運算架構，將之應用於本研究，並結合以卡門濾波器為基礎之估測融合架構，以達到最佳的追蹤效果。當感測器偵測到訊號之後，經過資料結合相關技術，提供目標運動的資訊供追蹤系統參考判斷用，進而判別出正確的雷達感測資料與目標軌跡關係。相信應用本論文所提之追蹤架構，將可得到較佳的追蹤結果。

關鍵詞 : 資料相關結合技術、競爭性類神經網路、以卡門濾波器為基礎之估測融合架構

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