

雷達軌道平滑化之研究

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摘要

雷達目標追蹤系統，在國防軍事上佔極重要的地位，它必須精準的分辨敵我目標。且需準確地鎖定目標的飛行方向及速度，以預測具攻擊或進行的目的地。為提昇追蹤的準確性，估算以前的資料，重新平滑化先前的飛行軌道有其必要性，其可提供追蹤系統更準確的估測能力。然而要儲存多目標的資料需相當大的記憶容量，因此吾人提出一種新的方法，利用類神經網路的運算方法，使目標物的歷史軌道維持完整，且也可減少記憶體的方法，此一方法可儲存大量的目標軌道資料，提昇雷達追蹤的準確性。

關鍵詞：目標追蹤系統；軌道平滑化；類神經網路

目錄

封面內頁 簽名頁 大葉大學碩士論文全文授權書	iii	中文摘要	
.	iv	英文摘要	v
.	vi	目錄	vii
.	ix	表目錄	x
第一章 緒論 1.1 研究動機	1	1.2 研究方法	
.	1	1.3 論文架構	2
.	4	第二章 雷達系統及其應用 2.1 前言	
.	8	2.2 雷達設計系統概念、功能及相技術	5
.	9	2.3 雷達追蹤系統	
.	9	3.1 前言	9
.	9	3.2 卡門濾波器原理	14
.	18	3.3 卡門濾波器之性質	14
前言	18	第四章 追蹤及平滑化理論堆導 4.1	
Step maximum a posterior probability	20	4.2 Gate技術	19
速度追蹤系統 5.1 前言	26	4.3 One	
.	27	Step maximum a posterior probability	20
.	31	4.4 軌道平滑化技術	22
.	31	第五章 適應性變	
.	31	速度追蹤系統 5.1 前言	26
.	31	5.2 變速追蹤理論與適應性程序	
.	31	6.1 模擬方法	31
.	31	6.2 模擬目標追蹤	
.	31	6.3 變速追蹤	31
.	31	6.4 變速追蹤	31
.	31	6.5 變速追蹤	31
.	31	6.6 變速追蹤	31
.	31	6.7 變速追蹤	31
.	31	6.8 變速追蹤	31
.	31	6.9 變速追蹤	31
.	31	6.10 變速追蹤	31
.	31	6.11 變速追蹤	31
.	31	6.12 變速追蹤	31
.	31	6.13 變速追蹤	31
.	31	6.14 變速追蹤	31
.	31	6.15 變速追蹤	31
.	31	6.16 變速追蹤	31
.	31	6.17 變速追蹤	31
.	31	6.18 變速追蹤	31
.	31	6.19 變速追蹤	31
.	31	6.20 變速追蹤	31
.	31	6.21 變速追蹤	31
.	31	6.22 變速追蹤	31
.	31	6.23 變速追蹤	31
.	31	6.24 變速追蹤	31
.	31	6.25 變速追蹤	31
.	31	6.26 變速追蹤	31
.	31	6.27 變速追蹤	31
.	31	6.28 變速追蹤	31
.	31	6.29 變速追蹤	31
.	31	6.30 變速追蹤	31
.	31	6.31 變速追蹤	31
.	31	6.32 變速追蹤	31
.	31	6.33 變速追蹤	31
.	31	6.34 變速追蹤	31
.	31	6.35 變速追蹤	31
.	31	6.36 變速追蹤	31
.	31	6.37 變速追蹤	31
.	31	6.38 變速追蹤	31
.	31	6.39 變速追蹤	31
.	31	6.40 變速追蹤	31
.	31	6.41 變速追蹤	31
.	31	6.42 變速追蹤	31
.	31	6.43 變速追蹤	31
.	31	6.44 變速追蹤	31
.	31	6.45 變速追蹤	31
.	31	6.46 變速追蹤	31
.	31	6.47 變速追蹤	31
.	31	6.48 變速追蹤	31
.	31	6.49 變速追蹤	31
.	31	6.50 變速追蹤	31
.	31	6.51 變速追蹤	31
.	31	6.52 變速追蹤	31
.	31	6.53 變速追蹤	31
.	31	6.54 變速追蹤	31
.	31	6.55 變速追蹤	31
.	31	6.56 變速追蹤	31
.	31	6.57 變速追蹤	31
.	31	6.58 變速追蹤	31
.	31	6.59 變速追蹤	31
.	31	6.60 變速追蹤	31
.	31	6.61 變速追蹤	31
.	31	6.62 變速追蹤	31
.	31	6.63 變速追蹤	31
.	31	6.64 變速追蹤	31
.	31	6.65 變速追蹤	31
.	31	6.66 變速追蹤	31
.	31	6.67 變速追蹤	31
.	31	6.68 變速追蹤	31
.	31	6.69 變速追蹤	31
.	31	6.70 變速追蹤	31
.	31	6.71 變速追蹤	31
.	31	6.72 變速追蹤	31
.	31	6.73 變速追蹤	31
.	31	6.74 變速追蹤	31
.	31	6.75 變速追蹤	31
.	31	6.76 變速追蹤	31
.	31	6.77 變速追蹤	31
.	31	6.78 變速追蹤	31
.	31	6.79 變速追蹤	31
.	31	6.80 變速追蹤	31
.	31	6.81 變速追蹤	31
.	31	6.82 變速追蹤	31
.	31	6.83 變速追蹤	31
.	31	6.84 變速追蹤	31
.	31	6.85 變速追蹤	31
.	31	6.86 變速追蹤	31
.	31	6.87 變速追蹤	31
.	31	6.88 變速追蹤	31
.	31	6.89 變速追蹤	31
.	31	6.90 變速追蹤	31
.	31	6.91 變速追蹤	31
.	31	6.92 變速追蹤	31
.	31	6.93 變速追蹤	31
.	31	6.94 變速追蹤	31
.	31	6.95 變速追蹤	31
.	31	6.96 變速追蹤	31
.	31	6.97 變速追蹤	31
.	31	6.98 變速追蹤	31
.	31	6.99 變速追蹤	31
.	31	6.100 變速追蹤	31

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