



航空学报 » 1994, Vol. 15 » Issue (8) :1007-1011 DOI:

论文

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

<< [an error occurred while processing this directive] | [an error occurred while processing this directive] >>

用TH神经网络方法外推数据的超分辨雷达成像

叶蓁如, 殷军

南京航空航天大学电子工程系,南京,210016

SUPERRESOLUTION RADAR IMAGING WITH EXTRAPOLATING DATA USING NEURAL NETWORK

Yezhenru, YinJun

Department of Electronic Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, 210016

摘要

参考文献

相关文章

Download: [PDF \(415KB\)](#) [HTML 0KB](#) Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 研究用 Tank-Hopfield 神经网络 (THNN) 求解 AR 模型参数作数据外推的超分辨雷达成像,并用微波暗室实测数据对 THNN 方法和 Burg 方法作了验证,结果表明,两种方法均能在较低的信噪比条件下实现超分辨成像,且随着 VLSI 技术的发展,神经网络方法将是一种很有希望的超分辨成像方法。

关键词: 雷达成像 高分辨率 线性预测 人工智能

Abstract: ata extrapolation super-resolution radar imaging with AR parameters estimated by Tank-Hopfield neural network (THNN) is investigated, and the real data in the microwave anechoic chamber are processed by the TH neural network method and Burg method. Imaging results indicate that both methods can complete super-resolution imaging under the lower SIN, and with the developing of the VLSI technology, the neural network method will be a very promising super resolution imaging method.

Keywords: radar imagery high resolution linear prediction artificial intelligence

Received 1992-08-24; published 1994-08-25

引用本文:

叶蓁如; 殷军. 用TH神经网络方法外推数据的超分辨雷达成像[J]. 航空学报, 1994, 15(8): 1007-1011.

Yezhenru; YinJun. SUPERRESOLUTION RADAR IMAGING WITH EXTRAPOLATING DATA USING NEURAL NETWORK[J]. Acta Aeronautica et Astronautica Sinica, 1994, 15(8): 1007-1011.

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

作者相关文章

- ▶ 叶蓁如
- ▶ 殷军