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利用不机动单站DOA、TOA的测量实现被动定位与跟踪

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PASSIVE LOCATION AND TRACKING USING DOA AND TOA MEASUREMENTS OF A SINGLE NON-MANUVERING OBSERVER

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摘要

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摘要

可以利用多个被动探测器或单个机动的探测器实现对运动辐射源的被动定位与跟踪。本文介绍的是一种利用非机动的单个探测器所获得的DOA/TOA测量值,对运动辐射源实现被动定位与跟踪的新方法。在二维平面内对运动辐射源使用这种方法,通过计算机仿真显示可以获得收敛而精确的跟踪数据。

关键词: 被动定位 被动跟踪 单站被动定位与跟踪

Abstract:

Passive Location and Tracking (PLAT) of a moving emitter can be implemented by multi-sited observers or by single maneuvering observer using DOA measurements only. In this article, the principle and method of passive location and tracking of a moving emitter by a single non-maneuvering observer using DOA and TOA measurements are presented and described. Computer simulation of PLAT of a moving emitter in two dimensional plane was implemented. It is shown that convergent and accurate tracking data can be obtained.

Keywords: passive location passive tracking passive location and tracking by single observer

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