

## Accepted Manuscript

High Resolution Localization of Narrowband Radio Emitters Based on Doppler Frequency Shifts

Tom Tirer, Anthony J. Weiss

PII: S0165-1684(17)30229-3  
DOI: [10.1016/j.sigpro.2017.06.019](https://doi.org/10.1016/j.sigpro.2017.06.019)  
Reference: SIGPRO 6518



To appear in: *Signal Processing*

Received date: 4 December 2016  
Revised date: 8 May 2017  
Accepted date: 14 June 2017

Please cite this article as: Tom Tirer, Anthony J. Weiss, High Resolution Localization of Narrowband Radio Emitters Based on Doppler Frequency Shifts, *Signal Processing* (2017), doi: [10.1016/j.sigpro.2017.06.019](https://doi.org/10.1016/j.sigpro.2017.06.019)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

**Highlights**

- We propose an efficient Direct Position Determination (DPD) method for Doppler-based localization of multiple stationary narrowband emitters.
- We also propose a modified algorithm to enhance the robustness of the new estimator to intermittent sources.
- Our work shows that the DPD approach enables using array processing methods even for single sensors in situations that have not been associated with array processing so far, provided that several snapshots that maintain the spatial signature can be obtained.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/4977481>

Download Persian Version:

<https://daneshyari.com/article/4977481>

[Daneshyari.com](https://daneshyari.com)