

## ***Resolution Threshold Analysis Of Music Algorithm In Radar***

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### **Resolution Threshold Analysis Of Music**

resolution threshold for 1-D MUSIC algorithm is derived. Monte Carlo simulations are presented to verify the analysis. The remainder of the paper is organized as follows. We set up radar echo model in range in Section 2, and then we investigate the uniqueness and effectiveness conditions for the MUSIC in Section 3.

### **RESOLUTION THRESHOLD ANALYSIS OF MUSIC ALGORITHM IN RADAR ...**

In the case of MUSIC, an approximate expression is derived for the resolution threshold of two plane waves with equal power in noise. This result is validated by Monte Carlo simulations.

### **Resolution threshold analysis of music algorithm in radar ...**

Resolution threshold of beamspace MUSIC for two closely spaced emitters Abstract: An analysis of a beamspace version of the MUSIC algorithm applicable to two closely spaced emitters in diverse scenarios is presented.

### **Resolution threshold of beamspace MUSIC for two closely ...**

Unlike conventional radar resolution analysis, we introduced the concept of resolution threshold from Direction of Arrival (DOA) into the MUSIC radar range imaging, we derive an approximate expression of theoretical resolution threshold for 1-D MUSIC imaging algorithm through the approach of asymptotic and statistical analysis to the null ...

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### **CiteSeerX — RESOLUTION THRESHOLD ANALYSIS OF MUSIC ...**

In this case,  $N = 2$  and (9) can be written as this case since we study the resolution capability of MUSIC, where resolution is defined for two equal power sources (see E { B ( B )<sup>2</sup>}<sup>1</sup> (1 - E ~ ) D ( ~ + E ) @ ) + &(e) (11) Section 111).

### **Effects of modeling errors on the resolution threshold of ...**

An expression for the threshold array signal-to-noise ratio at which beamspace MUSIC is able to resolve the emitters is obtained. The preprocessor that minimizes the resolution threshold is ...

### **Resolution analysis of the MUSIC-based TOA algorithm ...**

Threshold It is the minimum value of input below which the sensor gives no output. When we gradually increment the value of input from zero, we get no output at first. As soon as the input reaches above the value of sensor's threshold, it starts giving output. Threshold of a process is the minimum requirement of that process.

### **The SensorsGuide: Sensitivity, Resolution and Threshold**

The MUSIC based TOA algorithm was briefly introduced. And the resolution analysis of the algorithm was made both in theory and simulation experiments. The function of the resolution ability and the noise threshold of the algorithm were developed. Some conclusions about the choices of the algorithm parameter values were made.

### **Resolution analysis of the MUSIC-based TOA algorithm - INFONA**

The paper presents a performance analysis of certain eigenstructure based methods (MUSIC type) with suitable forward-only and forward/backward smoothing schemes employed to decorrelated coherent sources. Bias and resolution thresholds are derived for two coherent sources with different phase and unequal power.

### **IET Digital Library: Resolution threshold for coherent ...**

Effects of modeling errors on the resolution threshold of the MUSIC algorithm Abstract: Subspace-based algorithms for narrowband direction-of-arrival (DOA) estimation require detailed knowledge of the array response (the array manifold) and assume that the noise covariance matrix is known up to a scaling factor.

### **Effects of modeling errors on the resolution threshold of ...**

The MUSIC are used to link the statistics of the signal subspace with the algorithm requires that the array response be known for all resolution threshold. possible values of the source parameters. In other words, the response must either be measured and stored, or its analytic form must be available. A.

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