

On Emitter-Location Problem

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Abstract

This talk deals with semi-parametric statistical problems related to the geo-location method firstly used with the Lincoln Experimental Satellites 8 and 9. In this method, unknown coordinates of an emitter located on the Earth's surface are computed using differential time-of-arrival and differential Doppler shift of signals received from two geo-stationary satellites. The main goal in this talk is to provide a statistical analysis of problems arising in estimating these parameters.