

ABSTRACT

There are provided a method of locating a transmitting source in multipath environment and system thereof. The method comprises: obtaining, by each receiver k of a plurality of spatially separated receivers, a sequence of samples of a signal received by the receiver, each sample respectively associated with a time of obtaining said sample, wherein one or more receivers m among the plurality of receivers k each obtain a respective sequence of samples over a plurality of different positions along a respective trajectory $r(t)$ with respect to the site associated with the respective receiver m ; and processing the obtained sequences of samples to identify the most likely location of the transmitting source. Optionally, most likely location can be estimated using a grid of potential locations within an area of interest.