

ABSTRACT**Method for detecting the presence of an interference signal and associated devices**

The invention relates to a method for detecting any presence of an interference signal in a signal received by a receiving device, the received signal comprising a wanted component and an unwanted component, the receiving device comprising N receiving channels and a computer, the method comprising a step for:

- obtaining at least one matrix among an autocorrelation matrix of the received signal and an autocorrelation matrix of the unwanted component,
- calculating eigenvalues of the obtained matrix,
- estimating the signal to interference plus noise ratio of the recombined signal, and
- detecting any presence of an interference signal as a function of at least one of the calculated eigenvalues and of the estimated signal to interference plus noise ratio.

Figure for abstract: figure 2