



## A NEW METHOD FOR SEPARATION OF SPEECH SIGNALS IN CONVOLUTIVE MIXTURES (WedAmOR6)

★ Author(s) :

Mahmood Ferdosizadeh

(Sharif University of Technology, Iran)

Massoud Babaie-Zadeh

(Sharif University of Technology, Iran)

Farrokh A. Marvasti

(Sharif University of Technology, Iran)

★ Abstract :

In this paper, the performance of the gradient method based on Score Function Difference (SFD) in the separation of i.i.d. and periodic signals will be investigated. We will see that this algorithm will separate periodic signals better than i.i.d. ones. By using this experimental result and the fact that voiced frames of speech signals are approximately periodic, a modified algorithm named VDGaradient has been proposed for separation of speech signals in synthetic convolutive mixtures. In this method, voiced frames of speech signal will be used as the input to the gradient method, then the resulting separating system will be applied to separate sources completely.