## عنوان مقاله:

Dirty Multiple Access Channel with Partial Side Information andCooperation at the Transmitters

## محل انتشار:

دومین همایش ملی پژوهش های کاربردی در برق، مکانیک و مکاترونیک (سال: 1393)

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## خلاصه مقاله:

In this paper, we study a two-user Gaussian doubly dirty multiple-access channel (GDD-MAC), where weconsider two independent additive interference signals that each one is known to one of the encoders but unknown the receiver. By utilizing the lattice strategies, we derive achievable rate regions, independent of theinterference powers, achievable rate regions for the multiple access channel (MAC) with partial side informationand cooperation at the transmitters. It is shown that the sensed or estimated side information reduces the rateregions, the same as that occurs for Philosof-Zamir Gaussian channel

## کلمات کلیدی:

dirty multiple accsses channel, partial side information, cooperation