

Identification of Noise Sources on Industrial Machines Using Microphone Arrays

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1.

가 , , 가 가

2.2

100Hz 10kHz
B&K Type 4205

Reference sound source

56 log-
spiral 가 2-D
acqisiton PXI-4472 8
dynamic signal acquisition module
Labview

microphone array
Beamforming techinque 가

2.

ISVR

2.1

가

3.

3.1

beamforming

main lobe 가

가 가 가

main lobe가
가 가 , 가

beamforming

beamforming main lobe 가
scan plane , area

integration

가
Area integration noise map
가

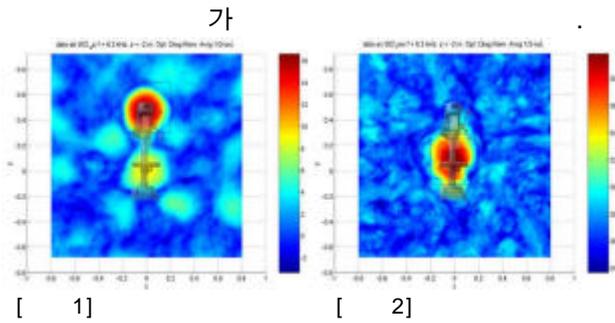
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post processing
 grid point , grid
 point

integrated spectra , 가
 point 가 가

3.3

workshop



[1]
 가

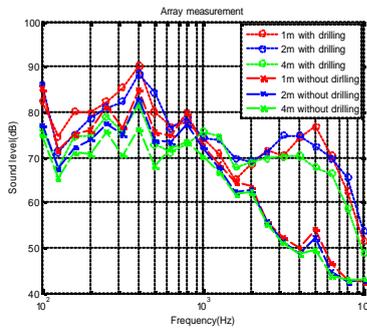
가

가

가

[2]

[3] area integration



[3]

area integrated

level

[3]

가

가

가

가 가

가

beamforming

3.2

가

가

가