

Title (en)

METHOD FOR CONTROLLING A MICROPHONE ARRAY AND DEVICE FOR CONTROLLING A MICROPHONE ARRAY

Title (de)

VERFAHREN ZUR STEUERUNG EINES MIKROFONARRAYS UND VORRICHTUNG ZUR STEUERUNG EINES MIKROFONARRAYS

Title (fr)

PROCÉDÉ DE COMMANDE D'UN RÉSEAU DE MICROPHONES ET DISPOSITIF DE COMMANDE D'UN RÉSEAU DE MICROPHONE

Publication

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Application

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Priority

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Abstract (en)

[origin: US2021185433A1] In order for a microphone array to capture sound emanating from a moving object whose exact position is unknown at the time of arrival of the sound signal, a method for controlling the microphone array comprises steps of receiving position information that includes a position (pTR) and a velocity of the moving object from a tracking system, receiving a plurality of microphone signals that comprise sound of a sound event emanating from the moving object from a plurality of microphone capsules, calculating a directional characteristic from the plurality of microphone signals, wherein the directional characteristic is based on beamforming according to the position information and wherein an audio output signal is generated that includes the sound from a preferred direction of high sensitivity, and providing the audio output signal at an output. A beam width or opening angle (α) of the directional characteristic varies over time and depends on the velocity of the moving object, wherein a higher velocity of the moving object results in a larger beam width or larger opening angle respectively.

IPC 8 full level

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