

Title (en)

METHOD FOR BINAURAL SYNTHESIS TAKING INTO ACCOUNT A SPATIAL EFFECT

Title (de)

VERFAHREN ZUR BINAURALEN SYNTHESE UNTER BERÜCKSICHTIGUNG EINES RAUMEFFEKTS

Title (fr)

PROCEDE DE SYNTHESE BINAURALE PRENANT EN COMPTE UN EFFET DE SALLE

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Application

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Abstract (en)

[origin: WO2007110520A1] The invention concerns a method for three-dimensional spatialization of audio channels from a filter BRIR filter incorporating a theater effect. For a specific number N of samples corresponding to the size of the pulse response of the BRIR filter, it consists in breaking down (A) the BRIR filter into at least a set of delay and amplitude values associated with the times of arrival of reflections; extracting (B) on the number of B samples at least one spectral module of the BRIR filter; and constituting (C) from each successive delay, its amplitude and its spectral module associated with an elementary BRIR filter (BRIR_e) directly applied to the audio channels in the time, frequency or transformed domain. The invention is applicable to binaural or multichannel spatialization.

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