

Title (en)

Method of modifying a filter for implementing a head-related transfer function

Title (de)

Verfahren zur Veränderung eines Filters zum Implementieren einer Kopfbezogene-Übertragungsfunktion

Title (fr)

Méthode pour modifier un filtre pour l'implémentation d'une fonction de transfert se rapportant à une tête artificielle

Publication

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Application

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Priority

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Abstract (en)

A head-related transfer function (HRTF) is used to place a virtual sound source at a particular position in 3D space. The absence of modelled sound reflections from the virtual sound source, and the presence of unwanted real reflections from real sound sources, can impair the effectiveness of the positioning of the virtual sound source. The invention describes a method of modifying a filter for implementing an HRTF (13), whereby the spectral profile of the HRTF is exaggerated by convolving the near-ear (16a,18a) and/or far-ear (16b,18b) transfer function with itself. This results in more effective placement of virtual sound images in 3D space, giving improved realism of 3D effects. The invention is of particular use in the virtualisation of multi-channel surround sound systems. <IMAGE>

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CPC (source: EP)

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