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室内音場のシミュレーションと可聴化

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TABATA, S., UEMATSU, H. and TSURU, H.: Simulation of sound field in acoustics and its auralization. Bull. Tokyo Gakugei Univ. Natur. Sci., **60**: 1 - 7. (2008) ISSN 1880-4330

Abstract

Simulation of the acoustic field using the current information technology has become a practical method of analyses of acoustics. In the present study, we show that it is possible to speed up such simulation by combining geometrical acoustic and wave acoustic techniques, where the former technique is known to give an approximate solution quickly, while the latter gives an exact solution, but requires much more calculation. In addition, we could recognize the difference of the calculation results as sounds by convolving the results into a sound source. The simulation of the acoustics was done on the art hall, Tokyo Gakugei University, Tokyo, Japan.

Key words: geometric acoustics, auralization, convolution

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