Fast DCT-2 Transform via Hadamard Transform

Armen Petrosyan and Hakob Sarukhanyan

Institue for Informatics and Automation Problems of NAS of RA
e-mail: hakop@ipia.sci.am

Abstract

In this paper we present Walsh-Hadamard transform (WHT) based on the fast discrete cosine transform (DCT-2) algorithm. The basic idea of this algorithm is the following: at first we compute the WHT coefficients, then using so called conversion matrix we convert these coefficients to the transform domain coefficients.

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DCT-2 արագ ձևափոխություն Հադամարի ձևափոխությամբ

Ա. Պետրոսյան, Հ. Սարուխանյան

Ամփոփում

Հոդվածում ներկայացված է Ուոլշ-Հադամարի ձևափոխության կիրառմամբ DCT-2 ձևափոխության արագ ալգորիթմը: Ալգորիթմի հիմնական իմաստը հետևյալն է՝ նախ հաշվվում են Ուոլշ-Հադամարի ձևափոխության գործակիցները, այնուհետև, այսպես կոչված կոնվերտացիոն մատրիցի օգնությամբ որոշվում են DCT-2 ձևափոխության գործակիցները: