Abstract

Spectral methods have been applied to many areas of digital system design. Reed-Muller Transform (RMT) is a spectral transform which is self inverse in nature. In this paper, eigen-decomposition of Reed-Muller Transform using Kronecker Product method is introduced. The properties of eigenvectors and eigenvalues of RMT are also illustrated.

Reference

- Kamran Iravani, Marek A. Perkowski, " Image Compression based on Reed Muller Transform" in Proc. Int. Conf. on Computational Intelligence and Multimedia Applications, 1998, pp. 81-95.

**Index Terms**

Electronics                          Digital Systems

**Key words**

eigenvalue
eigenvector

Kronecker Product

Reed Muller Transform