A STUDY OF FILTER BANK FRAMES IN $l^2(z)$

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Abstract

This paper studies a new frame - theoretic approach for the study of filter banks. We shown that the polyphase matrices provid matrix representations of the frame operator corresponding to a frame generated by a filter bank. Uniform filter bank frames in l2(Z) is introduced. Relations between frames and filter banks are established.

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Key Words : *Frames, Filter banks.*