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(54) Title: SCALAR QUANTIZATION FOR AUDIO CODING

(57) Abstract: There are described techniques for encoding and decoding audio signals. A decoder (10), configured to generate an audio signal (16) from a coded signal (3) representing the audio signal, may include: a coded signal reader (560), configured to read the coded signal (3), thereby providing a plurality of indexes (556); a scalar dequantization module (500), including: a plurality of quantization index converters (355), each quantization index converter (555) being configured to convert an index (556) of the plurality of indexes onto a corresponding latent scalar value (551), so that a plurality of latent scalar values (551) form a first latent audio signal representation (550) of the audio signal; and a first learnable section (540) to provide a second latent representation (530) from the first latent audio signal representation (550); a second learnable section (520) including at least one learnable layer and configured to generate the audio signal (16) from the second latent audio signal representation (530).



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