Abstract (en)

[origin: WO2007011157A1] Methods for Spatial Audio Coding (SAC) of a multi-channel audio signal and decoding of an audio bitstream generated by the SAC are provided. More particularly, methods of efficient quantization and dequantization of Channel Level Difference (CLD) used as a spatial parameter when SAC -based encoding of a multi-channel audio signal is performed are provided. A method of CLD quantization includes extracting sub-band-specific CLDs from an N-channel audio signal (N>1), and quantizing the CLDs by reference to a Virtual Source Location Information (VSLI)-based CLD quantization table designed using CLD quantization values derived from VSLI quantization values of the N-channel audio signal.

Citation (search report)

- [I] JEONGIL SEO ET AL: "A New Cue Parameter for Spatial Audio Coding", JOINT VIDEO TEAM (JVT) OF ISO/IEC MPEG & ITU-T VCEG(ISO/IEC JTC1/SC29/WG11 AND ITU-T SG16 Q6), XX, XX, no. M11264, 13 October 2004 (2004-10-13), XP030040038
- [A] FALLER C ET AL: "BINAURAL CUE CODING APPLIED TO STEREO AND MULTI-CHANNEL AUDIO COMPRESSION", PREPRINTS OF PAPERS PRESENTED AT THE AES CONVENTION, XX, XX, vol. 112, no. 5574, 10 May 2002 (2002-05-10), XP009024737
- [A] VAN DER WAAL R G ET AL: "Subband coding of stereophonic digital audio signals", SPEECH PROCESSING 1. TORONTO, MAY 14 - 17, 1991; [INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH & SIGNAL PROCESSING. ICASSP], NEW YORK, IEEE, US, vol. CONF. 16, 14 April 1991 (1991-04-14), pages 3601 - 3604, XP010043648, ISBN: 9780780300033
- [T] KWANKI KIM ET AL: "Improved Channel Level Difference Quantization for Spatial Audio Coding", ETRI JOURNAL, vol. 29, no. 1, February 2007 (2007-02-01), pages 99 - 102, XP002549876, Retrieved from the Internet <URL:http://etrij.etri.re.kr/Cyber/servlet/BrowseAbstract?paperid=LP0608-0149> [retrieved on 20091012]
- See references of WO 2007011157A1