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(71) Applicant(s):

DOLBY LABORATORIES LICENSING CORPORATION [US/US]; 1275 Market Street San Francisco, California 94103 (US)
(for all designated states)

(72) Inventor(s):

KADU, Harshad; c/o Dolby Laboratories, Inc. 1275 Market Street San Francisco, California 94103 (US)
SONG, Qing; 1235 Wildwood Avenue, Apt. 272 Sunnyvale, California 94086 (US)
SU, Guan-Ming; c/o Dolby Laboratories, Inc. 1275 Market Street San Francisco, California 94103 (US)

(74) Agent(s):

KONSTANTINIDES, Konstantinos; c/o Dolby Laboratories, Inc. 1275 Market Street San Francisco, California 94103 (US)

(54) Title (EN): INTERPOLATION OF RESHAPING FUNCTIONS

(54) Title (FR): INTERPOLATION DE FONCTIONS DE REMODELAGE

(57) Abstract:

(EN): Methods and systems for generating an interpolated reshaping function for the efficient coding of high-dynamic range images are provided. The interpolated reshaping function is constructed based on a set of pre-computed basis reshaping functions. Interpolation schemes are derived for pre-computed basis reshaping functions represented as look-up tables, multi-segment polynomials, or matrices of coefficients in a multivariate, multi-regression representation. Encoders and decoders using asymmetric reshaping and interpolated reshaping functions for mobile applications are also presented.

(FR): L'invention concerne des procédés et des systèmes permettant de générer une fonction de remodelage interpolée pour le codage efficace d'images à plage dynamique élevée. La fonction de remodelage interpolée est construite sur la base d'un ensemble de fonctions de remodelage de base pré-calculées. Des schémas d'interpolation sont dérivés pour des fonctions de remodelage de base pré-calculées représentées sous la forme de tables de consultation, de polynômes à segments multiples ou de matrices de coefficients dans une représentation à plusieurs variables et à régression multiple. L'invention concerne également des codeurs et des décodeurs utilisant des fonctions de remodelage asymétrique et de remodelage interpolé pour des applications mobiles.

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Declarations:

Declaration made as applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate

Declaration made as applicant's entitlement, as at the international filing date, to claim the priority of the earlier application, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii))