

Title (en)
AMBIENT LIGHTING DERIVED FROM VIDEO CONTENT AND WITH BROADCAST INFLUENCED BY PERCEPTUAL RULES AND USER PREFERENCES

Title (de)
AUS VIDEOINHALT ABGELEITETES UMGEBUNGSLICHT, UND WOBEI DIE AUSSTRAHLUNG DURCH WAHRNEHMUNGSBEZOGENE REGELN UND BENUTZERPRÄFERENZEN BEEINFLUSST WIRD

Title (fr)
ECLAIRAGE AMBIANT DERIVE D'UN CONTENU VIDEO, A DIFFUSION REGIE PAR DES REGLES PERCEPTIVES ET DES PREFERENCES UTILISATEUR

Publication
EP 1763974 A1 20070321 (EN)

Application
EP 05756729 A 20050628

Priority

- IB 2005052152 W 20050628
- US 58419804 P 20040630
- US 68501605 P 20050526

Abstract (en)
[origin: WO2006003624A1] Extracting video content encoded in a rendered color space for broadcast by an ambient light source, using perceptual rules in concert with user preferences for intelligent dominant color selection. Steps include quantizing the video color space; performing dominant color extraction by using a mode, median, mean, or weighted average of pixel chromaticities; applying perceptual rules to further derive dominant chromaticities via [1] chromaticity transforms; [2] a weighted average using a pixel weighting function influenced by scene content; and [3] extended dominant color extraction where pixel weighting is reduced for majority pixels; [4] Spatial extraction, temporal delivery and luminance perceptual rules; and [5] transforming the dominant color chosen to the ambient light color space using tristimulus matrices All perceptual rules are modulated in response to explicit indicated user preferences obtained via remote controls, sensors, video meta data, or a graphical user interface.

IPC 8 full level
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CPC (source: EP US)
H04N 9/73 (2013.01 - EP US); **H05B 47/10** (2020.01 - EP US); **H05B 47/165** (2020.01 - EP US); **Y02B 20/40** (2013.01 - EP)

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