

Title (en)

METHOD FOR RED EYE DETECTION IN A DIGITAL IMAGE

Title (de)

VERFAHREN ZUR ROTAUGENDETEKTION IN EINEM DIGITALBILD

Title (fr)

PROCÉDÉ POUR UNE DÉTECTION D'YEUX ROUGES DANS UNE IMAGE NUMÉRIQUE

Publication

EP 2143069 A1 20100113 (EN)

Application

EP 07723937 A 20070403

Priority

EP 2007002996 W 20070403

Abstract (en)

[origin: WO2008119368A1] The present invention relates to a method for red-eye detection in a digital input image (100, 100'), comprising: a face detection step to identify one or more face regions (SR, BB) within the input image (100, 100'), a redness and purple-brown mapping step, wherein for each pixel of said face regions (SR, BB) having (x, y) coordinates in the input image (100, 100') its redness and purple-brown values are calculated as follows (formula (I)), where f and f are functions, $a-(\beta+\gamma)=0$; $a, \mu, v > 0$; $\beta, \gamma = 0$, and a candidate red-eye regions (LRM) identification step, said candidate red eye regions (LRM) being portions of said face regions (SR, BB) having a computed redness average (R) and a computed purple-brown average (PB) which satisfy: $PB >$ first lower purple-brown limit and $R >$ first lower redness limit, and lower PR limit $< PR = R PB <$ upper PR limit. A further aspect of the invention relates to a method identifying at least one face in a digital image.

IPC 8 full level

G06T 5/00 (2006.01)

CPC (source: EP)

G06T 5/94 (2024.01); **G06T 7/0002** (2013.01); **G06T 7/90** (2016.12); **G06V 40/193** (2022.01); **G06T 2207/20012** (2013.01);
G06T 2207/30201 (2013.01); **G06T 2207/30216** (2013.01)

Citation (search report)

See references of WO 2008119368A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008119368 A1 20081009; EP 2143069 A1 20100113

DOCDB simple family (application)

EP 2007002996 W 20070403; EP 07723937 A 20070403