

Title (en)

SCALABLE EXPANDABLE SYSTEM AND METHOD FOR OPTIMIZING A RANDOM SYSTEM OF ALGORITHMS FOR IMAGE QUALITY

Title (de)

SKALIERBARES ERWEITERBARES SYSTEM UND VERFAHREN ZUR OPTIMIERUNG EINES ZUFALLSSYSTEMS VON ALGORITHMEN FÜR BILDQUALITÄT

Title (fr)

SYSTEME ET PROCEDE EXTENSIBLE VARIABLE D'OPTIMISATION D'UN SYSTEME ALEATOIRE D'ALGORITHMES DESTINES A UNE QUALITE D'IMAGE

Publication

**EP 1433134 A2 20040630 (EN)**

Application

**EP 02713136 A 20020328**

Priority

- IB 0201040 W 20020328
- US 27981501 P 20010329
- US 91246801 A 20010725

Abstract (en)

[origin: WO02080563A2] An optimizing video processing method and system selects algorithms for best obtainable video quality for the available computation resources. A video processing module, which processes an input of a video stream, architectural parameters for identifying an order of cascaded video functions and determining a bit precision between data of any consecutive cascaded functions according to an associated complexity level which correlates with a value of available computational resources. An optimizer module optimizes processing of the video stream and includes a plurality of optimization engines each having an associated complexity level. The optimizer module selects an optimization engine according a complexity level which correlates with the value of available computational resources. An Object Image Quality (OIQ) evaluator module evaluates an image quality of an output of the video stream from the video processing module. The OIQ evaluator module includes a plurality of objective image quality metrics having an associated complexity level. The OIQ evaluator module selects a metric according to a correlation factor and a complexity level for said value of available computation resources.

IPC 1-7

**G06T 5/00**

IPC 8 full level

**H04N 5/14** (2006.01); **G06T 9/00** (2006.01); **H04N 17/00** (2006.01)

CPC (source: EP KR)

**G06T 9/00** (2013.01 - EP KR); **H04N 17/00** (2013.01 - KR)

Citation (search report)

See references of WO 02080563A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**WO 02080563 A2 20021010**; **WO 02080563 A3 20040311**; CN 1511303 A 20040707; EP 1433134 A2 20040630; JP 2004527172 A 20040902; KR 20030005409 A 20030117

DOCDB simple family (application)

**IB 0201040 W 20020328**; CN 02800952 A 20020328; EP 02713136 A 20020328; JP 2002577435 A 20020328; KR 20027016075 A 20021127