Title (en)
ADAPTIVE QUANTIZATION METHOD FOR IRIS IMAGE ENCODING

Title (de)
VERFAHREN ZUR ADAPTIVEN QUANTISIERUNG ZUR IRISBILDCODIERUNG

Title (fr)
PROCÉDÉ DE QUANTIFICATION ADAPTATIVE POUR CODAGE D'IMAGE D'IRIS

Publication
EP 3459009 A4 20190703 (EN)

Application
EP 17824490 A 20170704

Priority
• RU 2016127451 A 20160707
• KR 20170068659 A 20170601
• KR 2017007066 W 20170704

Abstract (en)
[origin: RU2628201C1] FIELD: physics.SUBSTANCE: in the method, in the user device and in the machine-readable medium, a face image with the image of the user's eye is obtained; an iris image is segmented; the iris image is normalised and a basic mask is created. A set of complex numbers is obtained for the normalised iris image, each of which represents the gray intensity for the corresponding element of the normalized iris image. An iris code based on the normalized iris image is obtained, represented by a set of complex values, and the base mask is converted into a bit shape. The base mask is modified into the bit form by separate processing of the real and imaginary values of the set of complex numbers; the modified base mask is applied to the iris code; and the user is identified by the iris by matching the iris code to the reference iris code previously saved by the user.EFFECT: improved accuracy and reliability of the iris identification.11 cl, 10 dwg

IPC 8 full level
G06V 40/18 (2022.01); **G06V 10/25** (2022.01)

CPC (source: EP KR RU US)
G06F 18/00 (2023.01 - RU); **G06V 10/25** (2022.01 - EP US); **G06V 10/28** (2022.01 - KR); **G06V 10/449** (2022.01 - EP KR US); **G06V 40/10** (2022.01 - RU); **G06V 40/18** (2022.01 - EP US); **G06V 40/193** (2022.01 - EP KR RU US); **G06V 40/197** (2022.01 - EP US); **G06V 40/70** (2022.01 - RU)

Citation (search report)
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• [A] RADMAN ABDULJALIL ET AL: "Fast and reliable iris segmentation algorithm", IET IMAGE PROCES, IET, UK, vol. 7, no. 1, 1 February 2013 (2013-02-01), pages 42 - 49, XP006045706, ISSN: 1751-9659, DOI: 10.1049/IET-IPR.2012.0452
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• See references of WO 2018008934A2

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
CN 109416734 A 20190301; CN 109416734 B 20231114; EP 3459009 A2 20190327; EP 3459009 A4 20190703; KR 102329128 B1 20211122; KR 20180006284 A 20180117; RU 2628201 C1 20170815

DOCDB simple family (application)
CN 201780042068 A 20170704; EP 17824490 A 20170704; KR 20170068659 A 20170601; RU 2016127451 A 20160707