

Title (en)

METHOD AND APPARATUS FOR EXTRACTING INFORMATION FROM A TARGET AREA WITHIN A TWO-DIMENSIONAL GRAPHICAL OBJECT IN AN IMAGE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM EXTRAHIEREN VON INFORMATIONEN AUS EINEM ZIELBEREICH IN EINEM ZWEIDIMENSIONALEN GRAPHISCHEN OBJEKT IN EINEM BILD

Title (fr)

PROCEDE ET APPAREIL PERMETTANT D'EXTRAIRE DES INFORMATIONS D'UNE ZONE CIBLE DANS UN OBJET GRAPHIQUE BIDIMENSIONNEL D'UNE IMAGE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO02099738A1] A method is presented for extracting information from a target area (101) within a two-dimensional graphical object (100) having a plurality of predetermined features (23) with known characteristics in a first plane. An image (102) is read where the object (100) is located in a second plane, which is a priori unknown. A plurality of candidates (108) to the features in the second plane are identified in the image. A transformation matrix (H) for projective mapping between the second and first planes is calculated from the identified feature candidates. The target area (101) of the object is transformed from the second plane into the first plane. Finally, the target area is processed so as to extract the information.

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Citation (search report)

See references of WO 02099738A1

Citation (examination)

- LIEBOWITZ D.; ZISSERMAN A.: "Metric rectification for perspective images of planes", IEEE COMPUTER SOCIETY CONFERENCE, 23 June 1998 (1998-06-23), SANTA BARBARA, CA, pages 482 - 488, XP010291688
- SCHAFFALITZKY F.; ZISSERMAN A.: "Geometric Grouping of Repeated Elements within Images", SHAPE, CONTOUR AND GROUPING IN COMPUTER VISION, LNCS 1681, pages 165 - 181
- HARTLEY R.; ZISSERMAN A.: "Multiple View Geometry in Computer Vision", 2000, CAMBRIDGE UNIVERSITY PRESS, NEW YORK, USA
- SUK T.; FLUSSER J.: "Convex Layers: A new tool for Recognition of Projectively Deformed Point Sets", CAIP'99, LNCS 1689, 1999, pages 454 - 461
- FUJISAWA H.; SAKO H.; OKADA Y.; SEONG-WHAN LEE: "Information capturing camera and developmental issues", ICDAR '99. PROCEEDINGS OF THE FIFTH INTERNATIONAL CONFERENCE ON DOCUMENT ANALYSIS AND RECOGNITION, 20 September 1999 (1999-09-20), pages 205 - 208, XP010351192
- BURNS B.; HANSON A.; RISEMAN E., IEEE TRANS. ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, vol. 8, no. 4, July 1986 (1986-07-01), pages 425 - 455, XP001016046

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