

Title (en)  
MALIGNANCY DIAGNOSIS USING CONTENT-BASED IMAGE RETREIVAL OF TISSUE HISTOPATHOLOGY

Title (de)  
DIAGNOSE VON MALIGNOMEN MITTELS INHALTSBASIERTER BILDERFASSUNG VON GEWEBEHISTOPATHOLOGIE

Title (fr)  
DIAGNOSTIC DE MALIGNITÉ UTILISANT UNE EXTRACTION BASÉE SUR LE CONTENU D'IMAGE D'HISTOPATHOLOGIQUE DE TISSU

Publication  
**EP 2174263 A4 20130403 (EN)**

Application  
**EP 07836399 A 20070801**

Priority  

- US 83469706 P 20060801
- US 2007017181 W 20070801

Abstract (en)  
[origin: WO2009017483A1] This invention relates to computer-aided diagnostics using content-based retrieval of histopathological image features. Specifically, the invention relates to the extraction of image features from a histopathological image based on predetermined criteria and their analysis for malignancy determination.

IPC 8 full level  
**G06K 9/00** (2006.01); **G06K 9/34** (2006.01); **G06K 9/36** (2006.01); **G06K 9/40** (2006.01); **G06K 9/62** (2006.01)

CPC (source: EP)  
**G06V 20/695** (2022.01)

Citation (search report)  

- [I] WO 2006020627 A1 20060223 - AUREON BIOSCIENCES CORP [US], et al
- [A] US 2005262031 A1 20051124 - SAIDI OLIVIER [US], et al
- [A] US 2006159367 A1 20060720 - ZEINEH JACK A [US], et al
- [A] AYRES F J ET AL: "Performance Analysis of Oriented Feature Detectors", SIBGRAPI 2005 : XVIII BRAZILIAN SYMPOSIUM ON COMPUTER GRAPHICS AND IMAGE PROCESSING ; [NATAL, RIO GRANDE DO NORTE, BRAZIL, OCTOBER 9 - 12, 2005 ; CONFERENCE PROCEEDINGS], IEEE COMPUTER SOCIETY, LOS ALAMITOS, CALIF. [U.A.], 9 October 2005 (2005-10-09), pages 147 - 154, XP008104324, ISBN: 978-0-7695-2389-7, [retrieved on 20060227], DOI: 10.1109/SIBGRAPI.2005.38
- [A] MAVROFORAKIS M E ET AL: "Mammographic masses characterization based on localized texture and dataset fractal analysis using linear, neural and support vector machine classifiers", ARTIFICIAL INTELLIGENCE IN MEDICINE, ELSEVIER, NL, vol. 37, no. 2, 1 June 2006 (2006-06-01), pages 145 - 162, XP025138446, ISSN: 0933-3657, [retrieved on 20060601], DOI: 10.1016/J.ARTMED.2006.03.002
- [A] KAI HUANG ET AL: "Feature reduction for improved recognition of subcellular location patterns in fluorescence microscope images", MANIPULATION AND ANALYSIS OF BIOMOLECULES, CELLS, AND TISSUES: 28-29 JANUARY 2003, SAN JOSE, CALIFORNIA, USA, SPIE, BELLINGHAM, WASH, vol. 4962, 1 June 2003 (2003-06-01), pages 307 - 318, XP008104334, ISBN: 978-0-8194-4762-3, [retrieved on 20030728], DOI: 10.1117/12.477903
- [A] STEPHEN J KEENAN ET AL: "An automated machine vision system for the histological grading of cervical intraepithelial neoplasia (CIN)", JOURNAL OF PATHOLOGY, JOHN WILEY & SONS LTD, GB, vol. 192, no. 3, 1 November 2000 (2000-11-01), pages 351 - 362, XP008104335, ISSN: 0022-3417, [retrieved on 20000815], DOI: 10.1002/1096-9896(2000)9999:9999<:AID-PATH708>3.0.CO;2-1
- See references of WO 2009017483A1

Citation (examination)  
MADABHUSHI A ET AL: "AUTOMATED DETECTION OF PROSTATIC ADENOCARCINOMA FROM HIGH-RESOLUTION EX VIVO MRI", IEEE TRANSACTIONS ON MEDICAL IMAGING, IEEE SERVICE CENTER, PISCATAWAY, NJ, US, vol. 24, no. 12, 1 December 2005 (2005-12-01), pages 1611 - 1625, XP001240690, ISSN: 0278-0062, DOI: 10.1109/TMI.2005.859208

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 2009017483 A1 20090205**; EP 2174263 A1 20100414; EP 2174263 A4 20130403

DOCDB simple family (application)  
**US 2007017181 W 20070801**; EP 07836399 A 20070801