Title (en)
METHOD AND SYSTEM FOR GENERAL PURPOSE ANALYSIS OF EXPERIMENTAL DATA

Title (de)
VERFAHREN UND SYSTEM ZUR ALLZWECKANALYSE VON EXPERIMENTELLEN DATEN

Title (fr)
PROCEDE ET SYSTEME POUR ANALYSER DE MANIERE POLYVALENTE DES DONNEES EXPERIMENTALES

Publication
**EP 1138019 A2 20011004 (EN)**

Application
**EP 00937712 A 20000524**

Priority
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- US 14006199 P 19990621

Abstract (en)
[origin: WO0072258A2] Methods and system for general purpose analysis of images acquired from experimental data collected with automated feature-rich, high-throughput experimental data collection systems. A set of pre-determined general assay features is presented. An assay feature includes one or more measurements for an object in a digital photographic image acquired from the experimental data. The set of pre-determined general assay features includes object features, aggregate features and general purpose image processing features. A set of desired assay features is selected from the set of features. A set of images is processed using the desired assay features from the selected set of assay features. The methods and system help provide a general purpose assay development tool. The methods and system allow a biologist, other scientist or lab technician not trained in image processing techniques to quickly and easily design protocols and assays to analyze images acquired from experimental data (e.g., cells). The methods and system may improve the identification, selection, validation and screening of new drug compounds that have been applied to populations of cells. The methods and system may also be used to provide new bioinformatic techniques to manipulate experimental data including multiple digital photographic images.

IPC 1-7
**G06T 1/00**

IPC 8 full level
**G01N 33/48** (2006.01); **C12M 1/00** (2006.01); **C12Q 1/02** (2006.01); **G01N 15/02** (2006.01); **G06T 1/00** (2006.01); **G06T 7/60** (2006.01)

CPC (source: EP)
**G06T 7/62** (2016.12); **G06T 7/66** (2016.12); **G06V 20/69** (2022.01); G06T 2207/30024 (2013.01)

Citation (search report)
See references of WO 0072258A2

Citation (examination)
GUNTHER T. ET AL: "VIRIM: A massively parallel processor for real-time volume visualization in medicine", COMPUTERS & GRAPHICS, vol. 19, no. 5, 1 September 1995 (1995-09-01), AMSTERDAM, pages 705 - 710, XP004000244

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