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(54) Title: SYSTEM AND METHOD FOR PROVIDING INTERACTIVE FEATURE SELECTION FOR TRAINING A DOCUMENT CLASSIFICATION SYSTEM

(57) Abstract: A method for facilitating development of a document classification function comprises selecting a feature of a document, the feature being less than an entirety of the document; presenting the feature to a human subject; asking the human subject for a feature relevance value of the feature; and generating a classification function using the feature relevance value. The method may also include the steps of presenting the document to the human subject at the same time as presenting the feature; asking the human subject for document relevance value that measures relevance of the document to a category; and wherein the generating the classification function also uses the document relevance value.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/10057

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **G06F 7/00**( 2006.01)

USPC: 707/5

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 707/5

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST and Google Scholar

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	QUIROGA, L. M., An experiment in building profiles in information filtering: the role of context of user relevance feedback, <i>Information Processing &amp; Management</i> , volume 38, 2002, pages 671-694, especially, page 673, lines 1-8, and page 677, section 2.2.	1-30
X	Lam et al., Detection of Shifts in User Interests for Personalized Information Filtering, SIGIR'96, Zurich, Switzerland, pages 317-325.	1-30
X	MUKHOPADHYAY, S. et al., An adaptive multi-level information filtering system, <i>Proceedings of the Fifth International Conference on User Modeling</i> , 1996, pages 21-28.	1-30

Further documents are listed in the continuation of Box C.

See patent family annex.

\* Special categories of cited documents:

<p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent published on or after the international filing date</p> <p>“L” document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p>	<p>“T” later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>“X” document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>“Y” document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</p> <p>“&amp;” document member of the same patent family</p>
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