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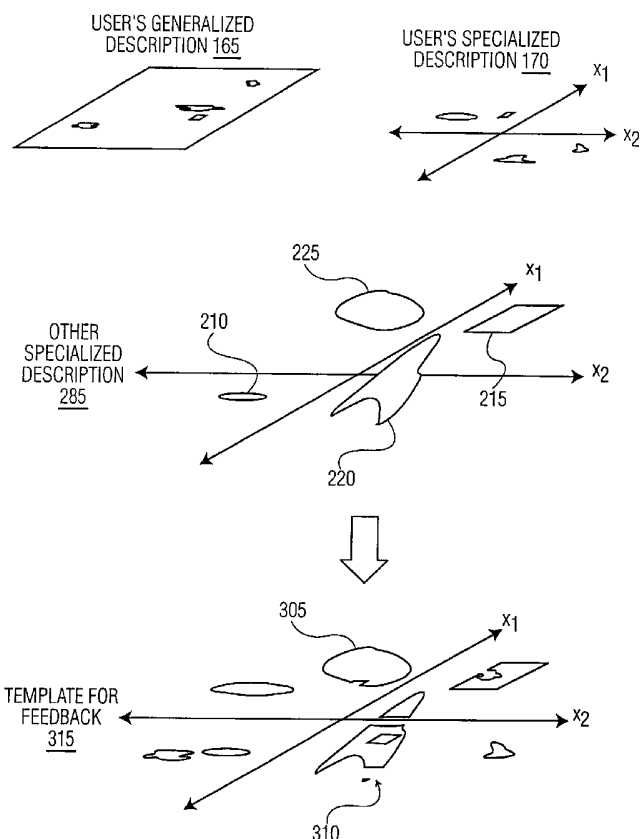
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- (72) Inventors: **GUTTA, Srinivas, V., R.**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **KURAPATI, Kaushal**; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
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- (74) Agent: **GROENENDAAL, Antonius, W., M.**; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
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- (71) Applicant: **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
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[Continued on next page]

(54) Title: PERSONALIZED RECOMMENDER PROFILE MODIFICATION USING PROFILES OF OTHERS



(57) Abstract: A data-class recommender, such an electronic program guide that recommends television programs, allows users to modify their implicit profiles using the profiles of other users. For example, if a user likes the programming choices made by a friend's profile, the user can have his/her profile modified by adding parts of the friend's profile to his own, either replacing parts or forming a union of the descriptors that indicated favored classes of data. According to an embodiment, features may be labeled to allow the modifying user to select the specific parts of the friend's profile to use in making the modifications. The labeling may be done based on feature-value scores or categories for which there is a high frequency of cross-correlation with other categories in a description that defines preferred subject matter, such as a specialized description of a version space.



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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International: Location No

PCT/IB 02/03811

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G06F17/30 H04N7/16

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)

IPC 7 G06F H04N

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 practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC, PAJ, IBM-TDB, WPI Data, BIOSIS, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 005 597 A (SIMPSON M O S C JASBA ET AL) 21 December 1999 (1999-12-21) column 5, line 42 -column 8, line 44 column 8, line 45 -column 9, line 10 column 10, line 9 - line 19 figures 7,8	1,2
A	---	3-8
A	WO 01 58145 A (KONINKL PHILIPS ELECTRONICS NV) 9 August 2001 (2001-08-09) page 3, line 3 -page 4, line 9 page 7, line 8 -page 8, line 14	1-8
E	US 2002/169731 A1 (GUTTA SRINIVAS ET AL) 14 November 2002 (2002-11-14) cited in the application whole document	1-8

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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *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)
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- *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
- *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
- *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.
- *Z* document member of the same patent family

Date of the actual completion of the international search

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03/03/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Eichenauer, L

INTERNATIONAL SEARCH REPORT

International: ication No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 02 17146 A (CABACUNGAN ROBERT SPASSKY ;ENNIS JEFFREY TAYLOR (US); ETANTRUM COM) 28 February 2002 (2002-02-28) page 9, line 23 - line 25 page 12, line 9 - line 18 page 38, line 11 - line 14 page 53, line 6 - line 24 figures 11,19,20 -----	1-8
A	US 5 983 214 A (LANG ANDREW K ET AL) 9 November 1999 (1999-11-09) column 11, line 4 - line 19 column 13, line 5 - line 14 figures 3,4 -----	1-8
A	WO 01 15449 A (SINGULARIS S A ;VAMPARYS FRANCK (CH)) 1 March 2001 (2001-03-01) page 17, line 3 - line 21 figure 7 -----	1-8
A	US 5 974 412 A (NYBAKKEN KRISTOPHER E ET AL) 26 October 1999 (1999-10-26) claim 10 -----	1-8
A	MANJUNATH B S ET AL: "A new approach to image feature detection with applications" PATTERN RECOGNITION, PERGAMON PRESS INC. ELMSFORD, N.Y, US, vol. 29, no. 4, 1 April 1996 (1996-04-01), pages 627-640, XP004006578 ISSN: 0031-3203 paragraph '0001! paragraph '3.3.3! -----	5-7

INTERNATIONAL SEARCH REPORT

Internationa application No.
PCT/IB 02/03811

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-4,8

A method of modifying a first user's user profile for a data-class recommender, comprising steps of:

- receiving feedback from a first user scoring examples falling into various data-classes;
- refining said first user's user profile responsively to said feedback;
- selectively modifying said first user's user profile responsively to data from a second user's user profile such that said first user's user profile is made more similar to said second user's user profile.
- first and second user's user profile each include a generalized target description defining the broadest description of favored data-classes
- said step of modifying includes replacing said generalized description of said first user's user profile with said generalized description of said second user's user profile.

2. Claims: 5-7

A method of modifying a first user's user profile for a data-class recommender, comprising steps of:

- receiving feedback from a first user scoring examples falling into various data-classes;
- refining said first user's user profile responsively to said feedback;
- selectively modifying said first user's user profile responsively to data from a second user's user profile such that said first user's user profile is made more similar to said second user's user profile.
- first user's user profile is generated, for the data class recommender, based on feedback regarding particular data-class choices, the method comprising the steps of:
 - labeling features of a second user profile based on categories of criteria, said second user profile being an implicit profile generated by providing feedback on individual selections;
 - displaying labels resulting from said step of labeling;
 - selecting at least one of said labels;
 - modifying said first user profile responsively to portions of said second user profile corresponding to said at least one of said labels;

INTERNATIONAL SEARCH REPORT

International	Location No
PCT/IB 02/03811	

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6005597	A	21-12-1999	NONE	
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