

Title (en)  
GENERATION OF RECOMMENDATION VALUES

Title (de)  
ERZEUGUNG VON EMPFEHLUNGSWERTEN

Title (fr)  
CRÉATION DE VALEURS DE RECOMMANDATION

Publication  
**EP 2732387 A1 20140521 (EN)**

Application  
**EP 12734881 A 20120703**

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Abstract (en)  
[origin: EP2546759A1] There is described a method of generating a recommendation value for a specific user-item pair based on known recommendation values for other user-item pairs. A user-item pair corresponds to one of m users and one of n items such that the recommendation value for said specific user-item pair is a recommendation value of a specific item of the n items for a specific user of the m users. Each user of the m users is associated with a corresponding user vector. Each item of the n items is associated with a corresponding item vector. The method comprises the steps of: generating the user vector associated with the specific user; generating the item vector associated with the specific item; and generating the recommendation value for the specific user-item pair based on a dot product of the user vector associated with the specific user and the item vector associated with the specific item. The method includes steps (a) to (c) for each stage in a series of stages. Step (a) involves identifying selected users from the m users and selected items from the n items so as to define a subset of user-item pairs that has a given density of known recommendation values. At each subsequent stage, the density of known recommendation values in the subset is reduced. For each selected user that has not been selected in any preceding stages, step (b) involves calculating the associated user vector based on known recommendation values for user-item pairs in the subset corresponding to said selected user and based on any corresponding item vectors calculated in any preceding stages. For each selected item that has not been selected in any preceding stages, step (c) involves calculating the associated item vector based on known recommendation values for user-item pairs in the subset corresponding to said selected item and based on any corresponding user vectors calculated in any preceding stages.

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