Title (en)

TELEVISION PROGRAM RECOMMENDER WITH INTERVAL-BASED PROFILES FOR DETERMINING TIME-VARYING CONDITIONAL PROBABILITIES

Title (de)

EMPFEHLUNGSVORRICHTUNG FÜR FERNSEHPROGRAMME MIT INTERVALLGESTÜTZTEN PROFILEN ZUR BESTIMMUNG ZEITLICH VERÄNDERLICHER BEDINGTER WAHRSCHEINLICHKEITEN

Title (fr)

SYSTEME DE RECOMMANDATION DE PROGRAMME DE TELEVISION A PROFILS BASES SUR DES INTERVALLES PERMETTANT DE DETERMINER DES PROBABILITES CONDITIONNELLES VARIABLES DANS LE TEMPS .

Publication

EP 1340179 A2 20030903 (EN)

Application

EP 01991738 A 20011116

Priority

• EP 0113418 W 20011116
• US 71825600 A 20001122

Abstract (en)

[origin: WO0242959A2] A method and apparatus are disclosed for generating television program recommendations based on a time-windowed viewing history of a viewer. Changes in the viewing preferences are automatically identified. The viewing history profile is maintained as a series of viewing history windows. The length of each individual window, and the overall length of the entire viewing history itself (i.e., the number of such smaller viewing windows) can be fixed or varied. Insignificant or non-reoccurring features that can be deleted from the viewer profile without losing significant information are also identified. A feature can be deleted from the viewer profile when the corresponding frequency count for the feature fails to exceed a minimum threshold for a predefined period of time. The disclosed television programming recommender adapts the generated television program recommendations to changes in viewing preferences. The conditional probability of a feature (the likelihood that programs in a known class, e.g., the class of programs watched, will have the feature) is calculated as a function of time. For cyclical or periodic changes in viewing preferences, the disclosed television programming recommender adjusts the conditional probability of an attribute so that it more accurately reflects one or more similar earlier cycles or periods. For trends or permanent changes in viewing preferences, the television programming recommender generates television program recommendations using the most recent window(s) of the viewing history, which are more likely to reflect the trend (current viewing preferences), or extrapolates a value from an identified trend.

IPC 1-7

G06F 17/60

IPC 8 full level

G06F 17/30 (2006.01); **G06Q 30/00** (2012.01); **H04N 17/00** (2006.01); **H04N 21/466** (2011.01)

CPC (source: EP KR)

G06Q 30/02 (2013.01 - EP); **H04H 60/46** (2013.01 - KR); **H04N 21/4667** (2013.01 - EP); **H04N 21/4668** (2013.01 - EP)

Citation (search report)

See references of WO 0242959A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 0242959 A2 20020530; **WO 0242959 A8 20020725**; CN 1606746 A 20050413; EP 1340179 A2 20030903; JP 2004515145 A 20040520; KR 20020070496 A 20020909

DOCDB simple family (application)

EP 0113418 W 20011116; CN 01807039 A 20011116; EP 01991738 A 20011116; JP 2002545412 A 20011116; KR 20027009369 A 20020720