

Title (en)

A METHOD AND SYSTEM FOR PRIVACY PRESERVING MATRIX FACTORIZATION

Title (de)

VERFAHREN UND SYSTEM FÜR EINE MATRIX-FAKTOРИСИЕРУНГ MIT SCHUTZ DER PRIVATSPHÄRE

Title (fr)

PROCÉDÉ ET SYSTÈME POUR FACTORISATION MATRICIELLE À PRÉSÉRATION DE CONFIDENTIALITÉ

Publication

EP 3031165 A2 20160615 (EN)

Application

EP 14731436 A 20140501

Priority

- US 201361864088 P 20130809
- US 201361864094 P 20130809
- US 201361864098 P 20130809
- US 201361864085 P 20130809
- US 2013076353 W 20131219
- US 2014036357 W 20140501

Abstract (en)

[origin: CN105009505A] A method and a system for generating privacy-preserving recommendations commences by receiving as input a first set of records including tokens and items, from a first set of users; designing and evaluating a first garbled circuit based on matrix factorization on the first set of records and a second garbled circuit based on ridge-regression on a second record, from a requesting user to generate recommendations in a privacy-preserving way about at least one item, such that the records and any information extracted from the records, are kept secret from parties other than their source and the recommendations are only known by the requesting user. The system also includes a Crypto-Service Provider which will design the garbled circuits and a Recommender will evaluate the first circuit. The requesting user will evaluate the second circuit and may not be included in the first set of users.

IPC 8 full level

H04L 9/00 (2006.01); **H04N 21/466** (2011.01)

CPC (source: EP)

H04L 9/008 (2013.01); **H04L 2209/46** (2013.01); **H04L 2209/50** (2013.01)

Citation (search report)

See references of WO 2014138752A2

Cited by

US11625752B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

CN 105009505 A 20151028; CN 105103487 A 20151125; CN 105144625 A 20151209; EP 3031165 A2 20160615; JP 2016510912 A 20160411; JP 2016510913 A 20160411; JP 2016517069 A 20160609; KR 20160041028 A 20160415

DOCDB simple family (application)

CN 201480012048 A 20140501; CN 201480012517 A 20140501; CN 201480021770 A 20140501; EP 14731436 A 20140501; JP 2015561769 A 20140501; JP 2015561770 A 20140501; JP 2015561771 A 20140501; KR 20157023839 A 20140501