

METHODS AND SYSTEMS FOR PERSONAL INFORMATION DETECTION, EXTRACTION, LINKING, PROTECTION AND MANAGEMENT

ABSTRACT

Systems and methods for personal data classification, linkage and purpose of processing prediction are provided. The system for personal data classification includes an entity extraction module for extracting personal data from one or more data repositories in a computer network or cloud infrastructure, a linkage module coupled to the entity extraction module, a linkage module coupled to the entity extraction module and a processing prediction module. The entity extraction module performs entity recognition from the structured, semi-structured and unstructured records in the one or more data repositories. The linkage module uses graph-based methodology to link the personal data to one or more individuals. And the purpose prediction module includes a feature extraction module a purpose of processing prediction module, wherein the feature extraction module extracts both context features and record's features from records in the one or more data repositories, and the purpose of processing prediction module predicts a unique or multiple purpose of processing of the personal data.

FIG. 1