

Supporting information

S1 Algorithm: Decomposition-based Profiling of User Behaviour

Input: Matrix of column data V , desired dimension of feature space r

- 1 Factor $V \approx WH$, where W is $m \times r$ and H is $r \times n$.
- 2 Use Affinity propagation clustering Algorithm [?], to cluster the columns of H , that are the coordinates of the data points after projection into a r -dimensional space.

Output: Cluster of data points that represents the SFPs.
