Ref.: Ms. No. COST-D-15-00148

Clustering over user features and latent behavioral functions with dual-view mixture models Computational Statistics

The paper presents a dual-view mixture model to cluster subjects based on features and latent behavioral functions. The number of mixture components is inferred through the Dirichlet processes (the Chinese restaurant representation). The proposed method is verified through a well-designed simulation study and an application. The merits of the proposed method are explored.

Some minor corrections:

1- P. 4, Equation(3). Use $y_u|f_u \sim f(y_u|f_u)$

2- P. 10, Equation(30). For the features view, every user is given a two-dimensional feature vector $\mathbf{a}_u=(a_{u1},a_{u2})^T$ drawn from $\mathbf{a}_u \sim_{ind} N(\mathbf{a}_{u0},\Sigma_a)$ where $\mathbf{a}_{u0}=(2\pi\ z_u/5, 2\pi\ z_u/5)^T$

3-Equation (31) $b_u \sim_{ind} N(-200+100z_u, \sigma)$