Describing Geographical Characteristics of Social Images

and events could also be essential for profiling a region. We thus study the problem of forming comprehensive description of geographical characteristics from social media. With the description of geographical characteristics in one specific region, we could better recognize this region and boost a number of utilities such as tourist advertising, etc.

While some existing applications such as tourist recommendation and location retrieval could also extend to this problem [5–8], they mainly rely on the textual information, e.g., social tags. To our best knowledge, geotagged photos help understand intuitively a specific region and it can boost plenty of appli-

distributions $\{\theta_m\}_m$

σ_k

collection by Eq. 6

and 500 “clusters” provide the best performance (Fig. 6), we here employ this parameter setting. Figure 7 present one example: the photo collection containing