

Yuan Meng

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Social Information based Image Recommendation



Education

Northeastern University

Software Engineering

Master

Sept., 2017 — Jan., 2020

Shenyang Normal University

Software Engineering (GPA : 3.45/4.00)

Bachelor

Sept., 2013 — Jul., 2017

Publications

1. Visual Semantic Image Recommendation

IEEE Access

Corresponding Author

Guibing Guo, **Yuan Meng**, Yongfeng Zhang, Chunyang Han, Yanjie Li

2. Image Recommendation With Reciprocal Social Influence

IEEE Access

First Author

Yuan Meng, Chunyang Han, Yongfeng Zhang, Yanjie Li, Guibing Guo

Projects and Work experiences

1. Visual Semantic Image Recommendation

Feb., 2019

Focus on utilizing image's object attention to recommendation.

- We propose a novel Visual Semantic Model (VSM) for image recommendation, where an image is represented by the weighted average of features of semantic objects. It is the first work to involve semantic objects for the task of image recommendation.
- We better model user preference by additionally summarizing the feature vectors of items the user rated before. Two attention networks on object- and image- level are devised to learn the importance weights of semantic objects and rated images.
- We conduct extensive experiments on a real-world dataset to reveal the effectiveness of our VSM model, by comparing with other state-of-the-art recommendation models. The results confirm the value of fine-grained semantic objects for image recommendation.

2. Image Recommendation With Reciprocal Social Influence

Sept., 2019

Focus on leveraging social reciprocal relationship to improve image recommendation performance.

- We take into account the reciprocity of social influence on both users and social friends, whereby better recommendation can be reached.
- We devise a deep neural model to realize the reciprocity of social influence for recommendations, and additionally incorporate the visual contents of images to boost the representation of both users and items.
- We devise a deep neural model to realize the reciprocity of social influence for recommendations, and additionally incorporate the visual contents of images to boost the representation of both users and items.

Honors and Awards

Oct., 2019: National Scholarship for Postgraduate Students

Sept., 2018: Outstanding Volunteer

Sept., 2017: The First Prize Scholarship of Northeastern University

Sept., 2015: The Second Prize Scholarship of Shenyang Normal University

Sept., 2014: The First Prize Scholarship of Shenyang Normal University