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Reviewer Invitation for KNOSYS-D-17-01246

1 message

Jie Lu <eesserver@eesmail.elsevier.com>

Mon, Jul 31, 2017 at 9:32 AM

Reply-To: Jie Lu <iie.lu@uts.edu.au>

To: Debanjan.Mahata@infosys.com, debanjanmahata85@gmail.com

Ms. Ref. No.: KNOSYS-D-17-01246

Title: Deep Multi-View Representation Learning for Social Images

Knowledge-Based Systems

Dear Debanjan,

This paper has recently been submitted to Knowledge-Based Systems and I would be most grateful if you could find the time to review it.

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I look forward to hearing from you in the near future.

Yours sincerely.

Jie Lu, PhD Editor in Chief **Knowledge-Based Systems**

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ABSTRACT:

Multi-view representation learning for social images by deep models has recently made remarkable achievements in many tasks, such as cross-view classification and cross-modal retrieval. However, social images usually also contain both link information and multi-modal contents (e.g., text description, and visual content), and simply employing the data content may result in sub-optimal multi-view representation of the social images. In this paper, we propose a novel Deep Multi-View Embedding Model (DMVEM) to learn a joint representations from the three views including the visual content, the associated text descriptions, and their relations. Specifically, to effectively exploit the link information, we build a weighted relation network based on the linkages between social images. Then, we embed the network into a low dimensional vector space using the Skip-Gram model, and regard it as the third view of social image. To learn from the three views, a deep learning model of

three-branch nonlinear neural network is built and a three-view bi-directional loss function is used to train the model. The stacked autoencoder is adopted to preserve the self-structure and reconstructability of the learned representation for each view. Comprehensive experiments are conducted in the tasks of image-to-text, text-to-image and image-to-image searches. Compared to the state-of-the-art multi-view embedding methods, our approach achieves significant improvement of performance.

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