

# Invitation to Review for IEEE Intelligent Systems - ISSI-2019-12-0469

IEEE Intelligent Systems <[onbehalfof@manuscriptcentral.com](mailto:onbehalfof@manuscriptcentral.com)>

Wed 1/01/2020 10:57 PM

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IEEE Intelligent Systems, ISSI-2019-12-0469

manuscript type: SI: Sept/Oct 2020 - Intelligent Recommendation with Advanced AI and Learning  
"Bringing Down the Walls Between Modalities in Recommender Systems"

01-Jan-2020

Dear Dr. wang:

I invite you to review the above referenced manuscript submitted to IEEE Intelligent Systems. The abstract appears at the end of this letter. The due date for the review is 3 weeks from the time you Agree. Within 3 days, please click the appropriate link provided below to automatically register your reply with ScholarOne Manuscripts, our online manuscript submission and review system.

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If you are unable to review at this time, I would appreciate you recommending another expert reviewer. If you accept my invitation to review this manuscript, you will be notified via email about how to log on to ScholarOne Manuscripts. You will then have access to the manuscript and reviewer instructions in your Reviewer Center.

Our expert reviewers greatly contribute to the magazine's high standards. I look forward to your response.

Sincerely,  
Dr. Guest Editors Intelligent Recommendation with Adv AI and Learning  
Associate Editor

## ABSTRACT:

Multimodal recommender systems seek to alleviate the sparsity of historical user-item interactions by leveraging auxiliary sources of information. They are commonly catalogued based on the type of auxiliary data (modality) they rely on, whether they learn from preference data plus user-network (social), user/item texts (textual), or item images (visual) respectively. One consequence of this categorization is the tendency for virtual walls to arise between modalities. For instance, a study involving images would compare to only baselines ostensibly designed for images. Similarly, a practitioner seeking to leverage item descriptions to improve

recommendations would spontaneously pick a text-based recommender algorithm. However, a closer look at existing models' statistical assumptions about any one modality would reveal that many could work just as well with other modalities. Therefore, towards a more holistic development of multimodal recommender algorithms, we pursue a systematic investigation into several research questions: which modality one should rely on, whether a model designed for one modality may work better with another, as well as which model to use for a given modality. To shed light on these pertinent questions, we conduct cross-modality and cross-model comparisons and analyses, yielding insightful results that point to interesting future research directions for multimodal recommender systems.