

Fake News Detection on Social Media:

A Data Mining Perspective

Guest Lecture from MSU Assistant Professor Jiliang Tang

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MAK BLL126 - Case Room

Social media for news consumption is a double-edged sword. On the one hand, its low cost, easy access, and rapid dissemination of information lead people to seek out and consume news from social media. On the other hand, it enables the wide spread of "fake news", i.e., low quality news with intentionally false information. The extensive spread of fake news has the potential for extremely negative impacts on individuals and society. Therefore, fake news detection on social media has recently become an emerging research that is attracting tremendous attention. We conducted this survey to further facilitate research on the problem. In this survey, we present a comprehensive review of detecting fake news on social media, including fake news characterizations on psychology and social theories, existing algorithms from a data mining perspective, evaluation metrics and representative datasets. We also discuss related research areas, open problems, and future research directions for fake news detection on social media.

Jiliang Tang is an assistant professor in the computer science and engineering department at Michigan State University since Fall@2016. Before that, he was a research scientist in Yahoo Research and got his PhD from Arizona State University in 2015. He has broad interests in social computing, data mining and machine learning and is directing the [Data Science and Engineering Lab](#). He was the recipients of the Best Paper Award in KDD2016, the runner up of the Best KDD Dissertation Award in 2015, Dean's Dissertation Award and the best paper shortlist of WSDM2013. He has published his research in highly ranked journals and top conference proceedings, which received thousands of citations and extensive media coverage.

