

# Introduction

## Conventional detection methods

- Mainly adopted **hand-crafted features** to train **supervised classifiers**.
  - User characteristics, text contents, propagation patterns
  - Decision Tree, Random Forest, SVM
- Some studies apply more **effective features**
  - User comments (Giudice 2010)
  - Temporal-structural features (Wu, Yang, and Zhu 2015)
  - The emotional attitude of posts (Liu et al. 2015)

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- These method mainly rely on **feature engineering**
  - Very **time-consuming** and **labor-intensive**
- Hand-crafted features are usually lack of high-level representation extracted from the propagation and the dispersion of rumors