Highlights

To solve the rumor tracking problem, we propose a deep reinforcement learning based bagging model for rumor tracking (RL-ERT), which aggregates multiple components by a weight-tuning policy network, and utilizes specific social features to improve the performance. The highlights can be summarized as follows,

(1) By exploring plenty of basic models, we proposed an aggregated model named RL-ERT to solve the rumor tracking task.

(2) We analyze the rumor tracking task and find suitable features and embedding methods. Also, we propose a reinforcement learning based bagging algorithm to aggregate basic models into a macrocosm.

(3) We conduct experiments on public benchmark datasets, and the experimental results show the rationality and superiority of RL-ERT.