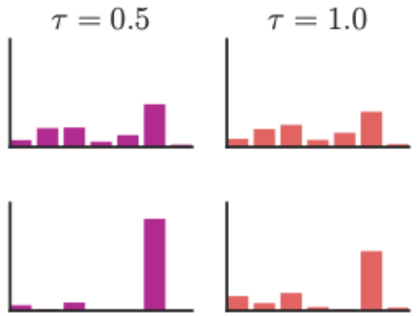
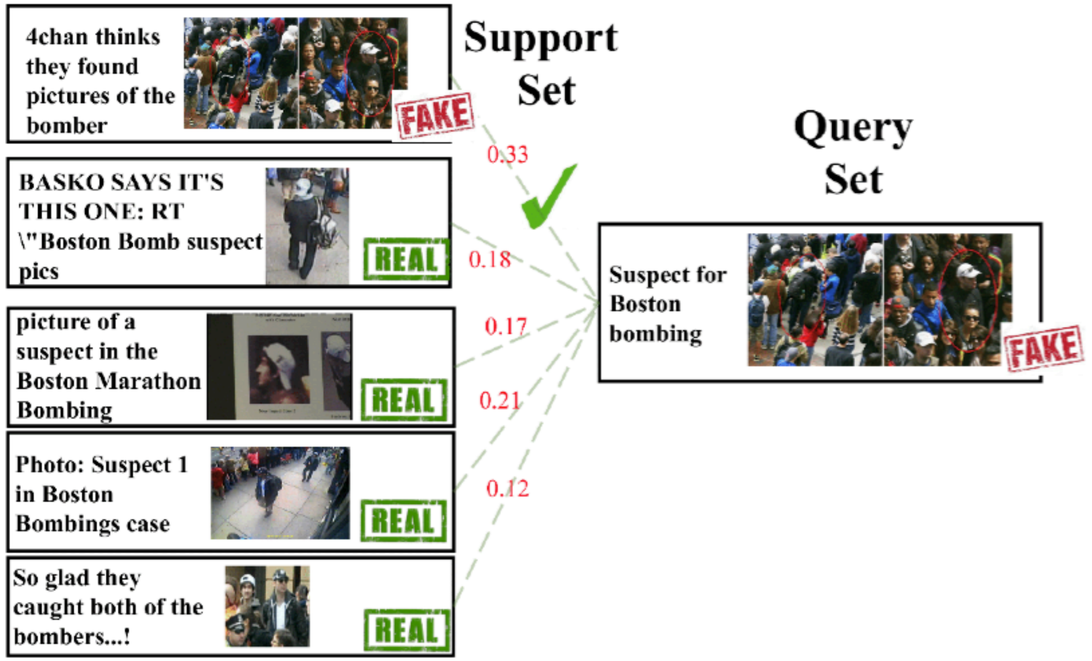
Case Study

Effective of Hard-Attention



https://arxiv.org/abs/1611.01144



- Although the first example with largest attention score value is most similar to news example in the query set, the majority of context information is from the other four examples due to imbalanced class distribution.
- Due to imbalanced class condition in the support set, it's difficult for Soft-Attention to provide correct prediction for news of interest in the query set.
- Hard-Attention can achieve correct result by focusing on the most similar sample in the support set.

Conclusions

- Study the problem of fake news detection on emergent events.
- Propose a novel fake news detection framework MetaFEND, which can rapidly learn to detect fake news for emergent events with a few labeled examples.
- MetaFEND can enjoy the benefits of meta-learning and neural process model families without suffering their own limitations.