Conclusions and Contribution

- Propose a framework MVNN to model the visual contents for fake news detection
  - exploits an end-to-end neural network to learn representations of frequency and pixel domains **simultaneously and effectively fuse them**
- Experiments conducted on Weibo dataset validate the effectiveness of MVNN, The results shows that MVNN is much better than existing methods.
- The visual representations learned by MVNN can help **improve the performance** of multi-modal fake news detection by a large margin.
- Proven the information of frequency and pixel domains are complementary

Comments

- Focus on the visual feature in this work
- Fuse the frequency and pixel feature with attention get stronger image representation
- Suitable for many types of fake-news image than other works
- Can apply with other work via replace the visual representation