

Attention Mechanism

- Visual features at both physical and semantic levels are important for detecting fake-news images
- Not all features contribute **equally** to the task of fake news detection
 - some visual features play more important roles than others in evaluating feature
- Employ an **attention mechanism** to fuse these visual features from frequency and pixel domains dynamically.

Introduction

MVNN framework

- To sum up, propose a Multi-domain Visual Neural Network (MVNN) framework, which can learn effective visual representations by combining the information of frequency and pixel domains for fake news detection.
- model consists 3 main components:
 - a frequency domain sub-network
 - a pixel domain sub-network
 - a fusion subnetwork

