

## **Developing POS Level Emotion-Based Features on Satire Detection**

**Pyae Phyo Thu**  
**pyaephyothu149@gmail.com**

**University of Computer Studies, Mandalay, UCSM**

**Than Nwe Aung**  
**mdytina@gmail.com**

**University of Computer Studies, Mandalay, UCSM**

Due to the implicit traits embedded in the language, handling figurative languages appear to be the most trending topics in public opinion mining and social multimedia sentiment analysis. Failures in recognition of these languages can lead to the misrepresentation of actual sentiments, attitudes or opinions person or community try to expose. Satire is a more alive form of figurative communication which intends to criticize someone's behavior and ridicule it. This work proposes the POS level emotion-based features by using the emotion lexicon SenticNet and VADER. It is approached as a classification problem by applying a supervised machine learning algorithm: Random Forest. The system can tackle the problem of high bias error in both long text and short text datasets with 83% to 89% accuracy whereas the BOW gives high accuracy but cannot handle the problem of high bias error in satirical language processing.