

Chatroom Safety

Detecting pedophiles in chatrooms



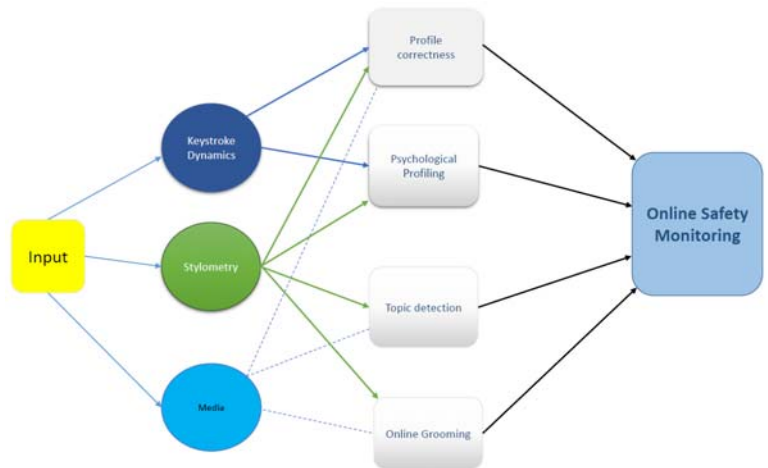
Motivation

In online chatrooms a person can take any identity he/she wants. There is no check on the correctness of age and gender in the profile of a user.

Child predators might change gender and age information with the goal of getting in contact with young children for malicious purposes.



In this project we want to create a safer online environment by developing tools for automatic detection of pedophiles in chatrooms.

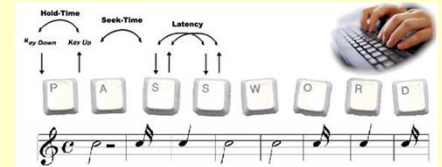


Research Questions

- Can the characteristics of a user be determined based on his or her behaviour in a chatroom
 - Age / gender correctness with profile
- Can we detect the topic of a conversation in a chatroom
 - Sexual nature of the conversation
- Can we detect cyber-grooming in a chat conversation
 - Detecting harmful sequence in the conversation
- How can we combine the results of the above RQ to find pedophiles in a chatroom
 - Online Safety Monitoring

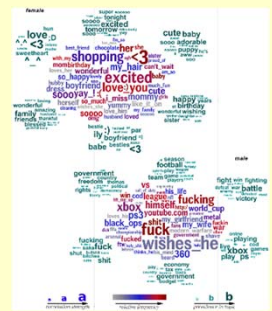
Keystroke Dynamics

- Determining gender and age based on how a person types on a keyboard
 - Duration
 - Latency

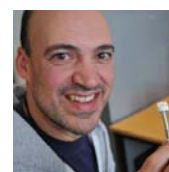


Stylometry

- Stylometry is based on the assumption that each individual has a unique writing style
- Author profiling of age, gender, and emotional state



Parisa Rezaee Borj
parisa.rezaee@ntnu.no



Prof Dr. Patrick Bours
patrick.bours@ntnu.no