Handsfree GUI Controller based on OpenCV and PyAutoGUI
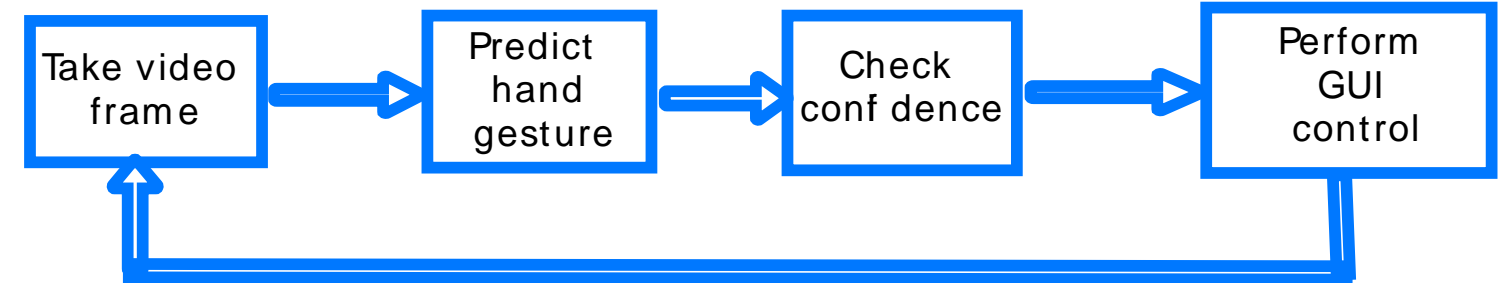## Nemanja Simic RA77-2015
Soft Computing - E2-2018/2019

Problem Definition

Being able to control Your computer without touching it is the main purpose of this project. By showing certain hand gestures You can perform various commands.

Dataset: Manually collected data.

Pipeline

Take video frame → Predict hand gesture → Check confdence → Perform GUI control

Used techniques

(Morphology)   (Object detection)   (PyAutoGUI)

Conclusion and future work

Problems exist when You need to determine when to perform action on gui because repeaded frame processing can create repeadet gui actions.

Many improvements can be made in future including: Gesture personalization, hand tracking for mouse movement, gesture bindings etc.