



Emotion Pattern Analysis of Korean Face for Developing Strong and Global K-Culture Expression

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Why Emotion?

Korean Traditional Face Emotion Pattern is One of The Best Cultures





Act 1

Mudong Madang

The bride (playing also the Goddess) enters the stage on the arms of one musician. Next she goes from row to row of the amphitheatre and collects money arguing for more with the audience.







Korean Face Emotion Pattern

Basic Emotions

7 emotions [Eckman] that are very fundamental and are largely independent in nature are -

- Sadness
- Anger
- Fear
- Surprise
- Happiness
- Disgust
- Neutral



Face Emotion Pattern



Happy



Surprise



Angry



Neutral



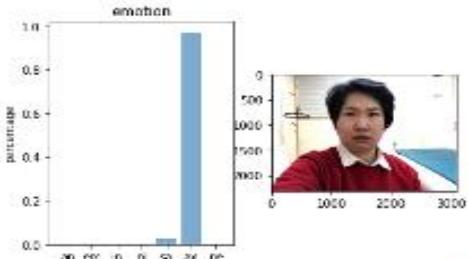
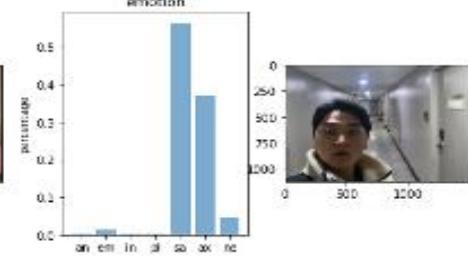
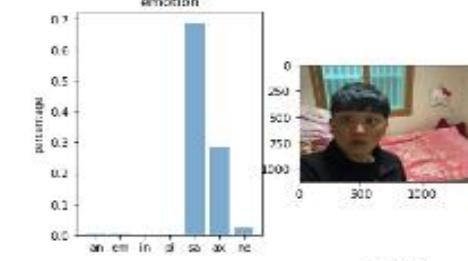
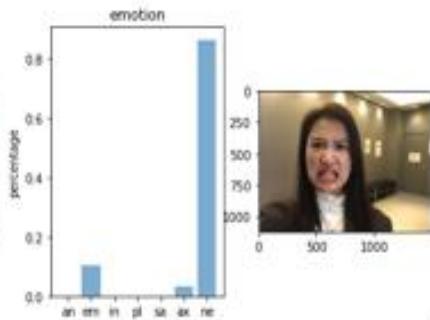
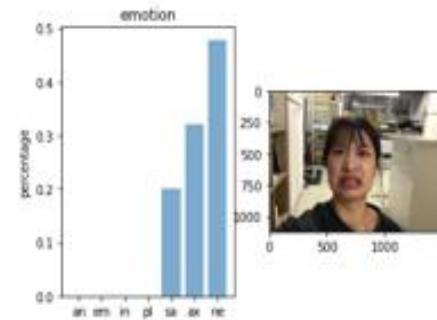
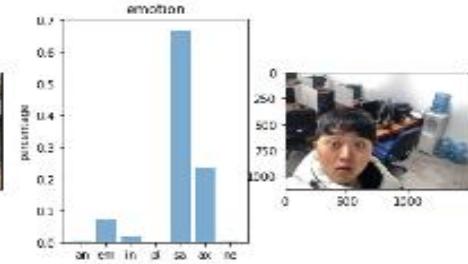
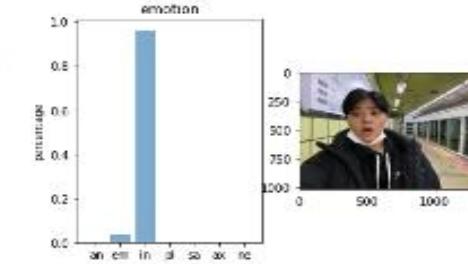
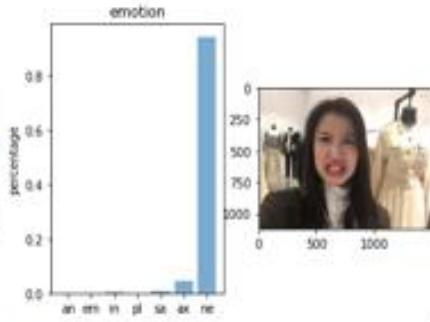
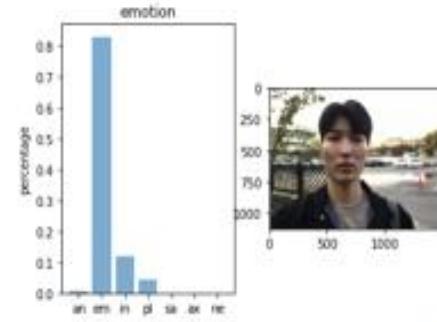
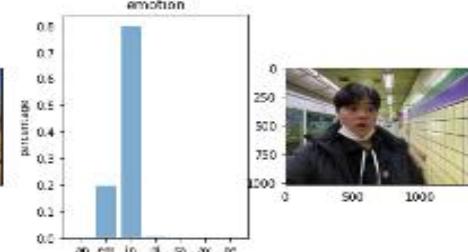
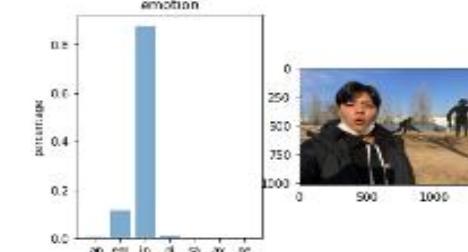
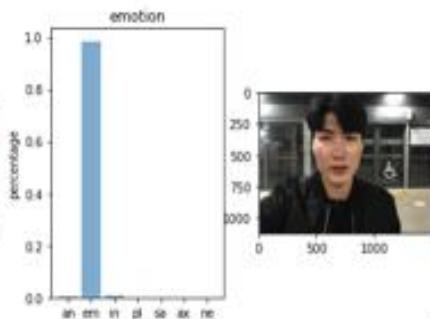
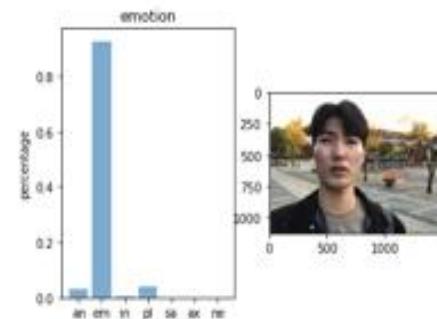
Sad



Fear

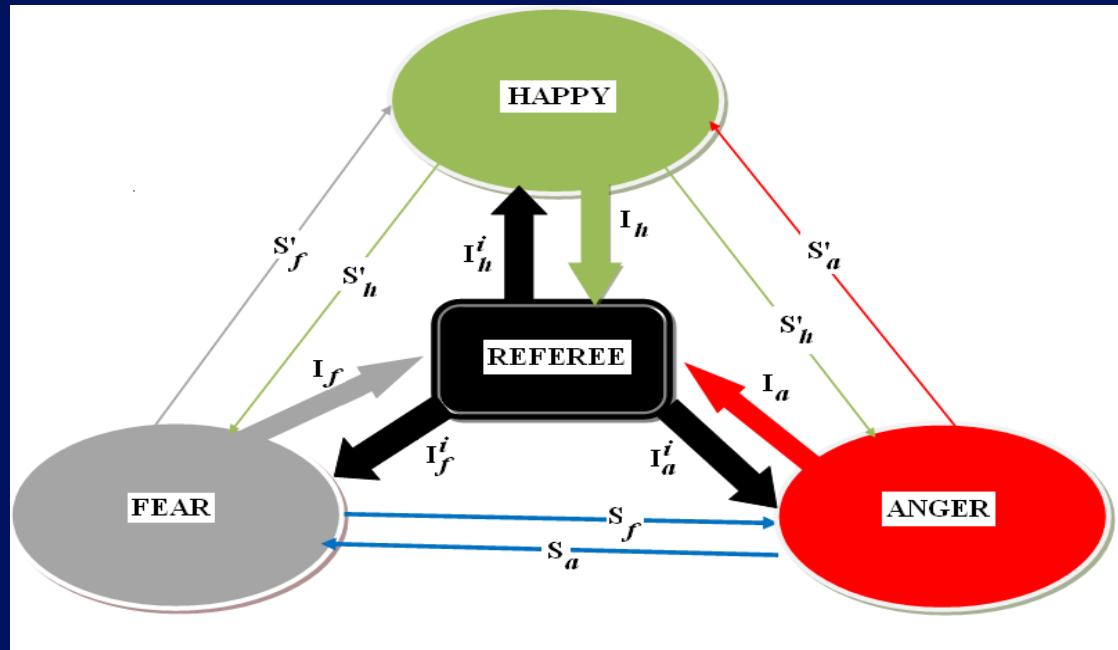


Misc.



- Traditional Culture
- Future Technology
- Emotion

Implementation of Emotion Pattern

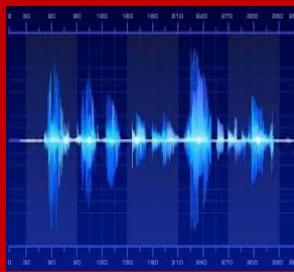


AI and Korean Culture

AI and Traditional Culture

Data

Image

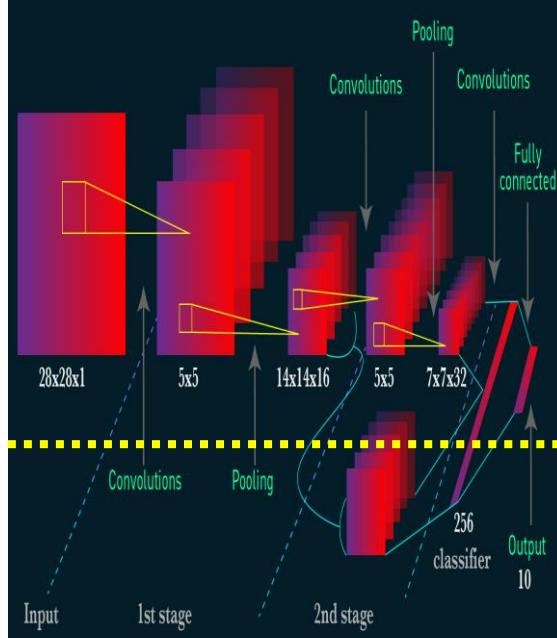


Audio



Text

AI



Results

- Image pattern analysis



- Voice pattern analysis
- Voice imitation



- Storying pattern analysis
- Novel

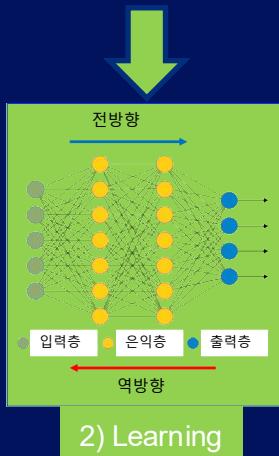


New
Contents
for Global
Market

GPT and K-Culture



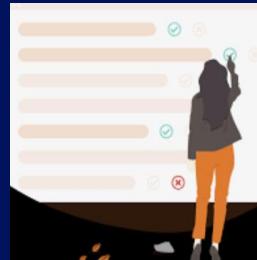
1) Initial story



2) Learning

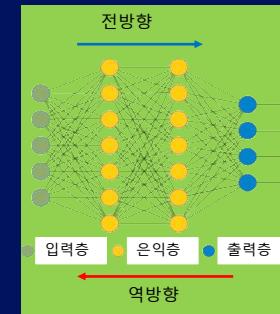
Creating a photorealistic talking head model – a virtual character that sounds and appears real, has long been a goal both in digital special effects and in the computer graphics research community. In their seminal paper, Bregler et al. [1997] demonstrated how to “rewrite” a person’s lip movement in a video to match a new audio track represented as a phoneme sequence. Their approach was notable in automating all of the key components; face tracking,

3) Story product



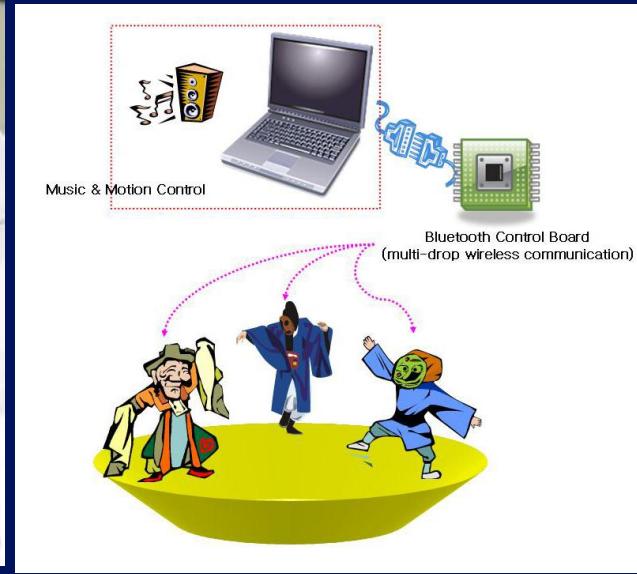
4) RLHF

6) Reinforcement



5) Class

Implementation for Korea Traditional Dancing



Act 5



The flirtatious young women dances, then
relieves herself.

The monk walks by. "You have aroused
me by showing me your private parts and
letting me smell your urine."

Emotion Technology Market



Human-Robot
Dancing



Human-Robot
Sport



Human-Robot theater



Robot-Robot dancing



Robot Sport



Robot-Robot theater



Thanks!

