



# AFFECTIVE COMPUTING

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IAT 320 - D101

# AFFECT BEHAVIOUR COGNITION

Three domains of modern psychology

# AFFECT

## BEHAVIOUR

## COGNITION

**n.** In psychology, an organism's experienced emotion or feeling

# AFFECTIVE COMPUTING

- n.** The study or development of technologies that can recognize, interpret, respond to and adapt to a human's affect or emotional state



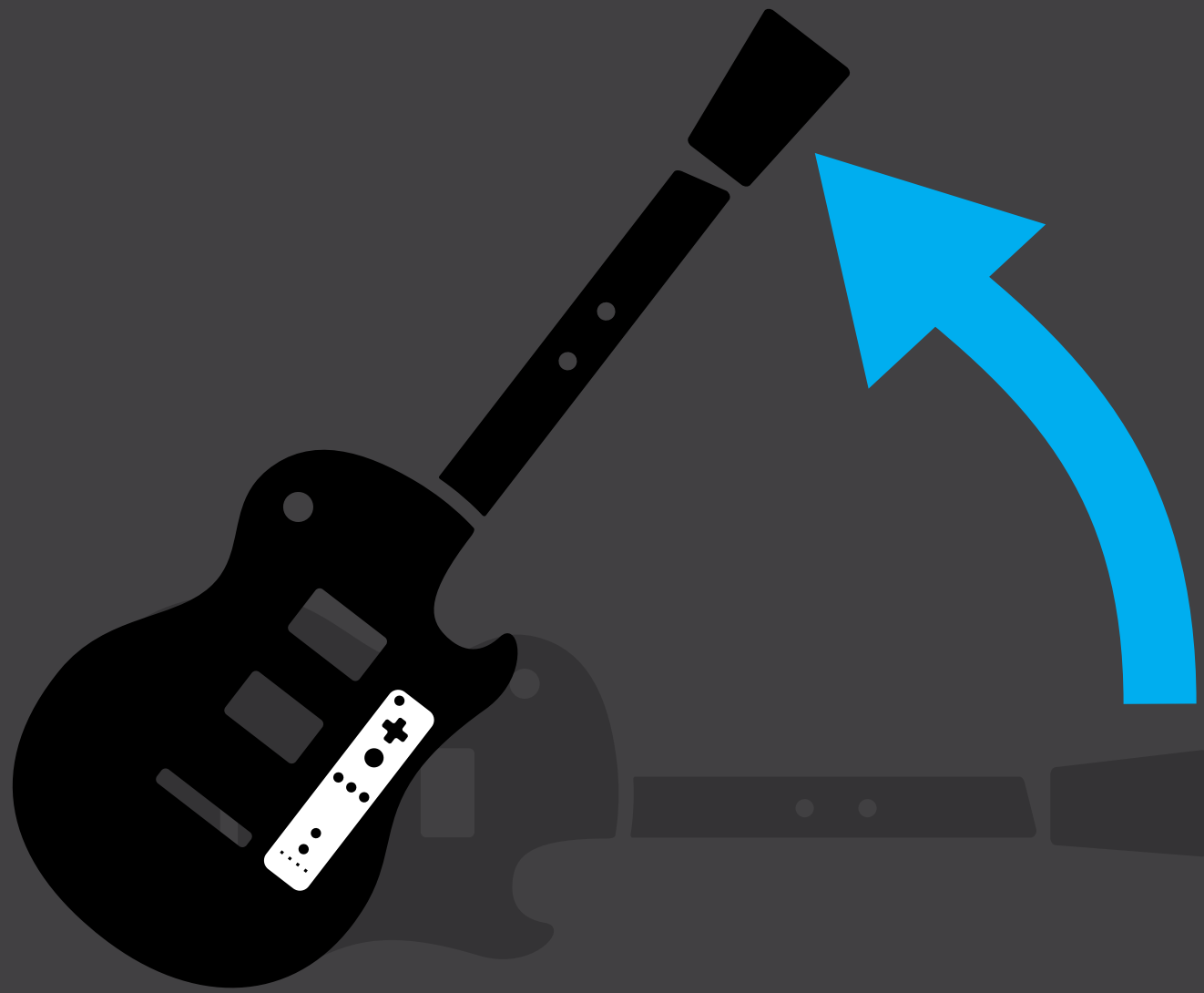
# GESTURE GUITAR

Rob Morris

“Playing an instrument can be an intensely physical experience. During an emotional performance, musicians may contort their face, change their posture, or even gesture with their instrument.”

# GESTURE GUITAR

INTERACTION MODEL



Physical changes in the guitar's orientation are treated as physiological responses to affective arousal, tracked via the gyroscope and accelerometer, and translated into musical effects.



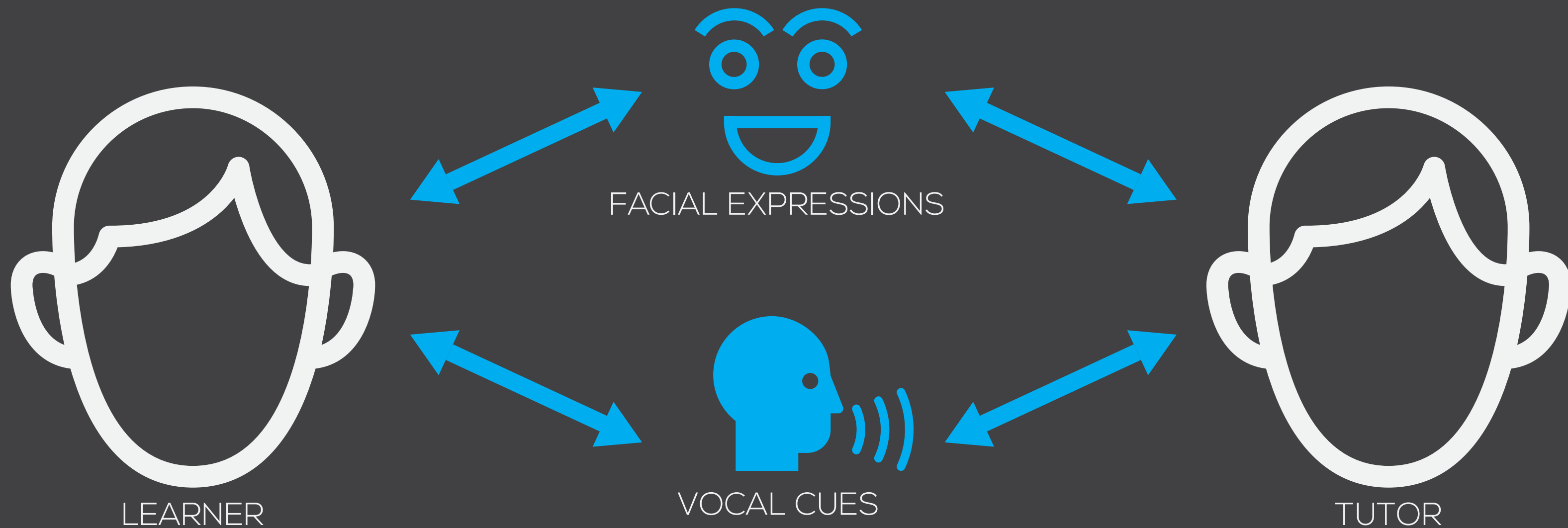
# MYSELF

ACSE

“The project aims at developing an e-learning platform endowed with affective computing capabilities for the training of relational skills through interactive simulations.”

# MYSELF

INTERACTION MODEL



The virtual tutor expresses affect by mimicking physiologically-driven facial expressions, and recognizes affect by detecting facial expression, vocal cues, and more.