

A NOVEL METHOD FOR HANDWRITTEN DIGIT RECOGNITION SYSTEM

WHAT DO THEY THINK AND FEEL?

FEATURE EXTRACTION
CLASSIFICATION OF DIGIT
PIXEL DETECTION
PREDICT IMAGE
GRABBING CHARACTER TO GRID

WHAT DO THEY HEAR?

RECOGNIZER
LEARNING MODULES
TESTING DATA

WHAT DO THEY SEE?

STROKE IDENTIFICATION
RE-SAMPLING
ACQUISITION

WHAT DO THEY SAY AND DO?

PREPROCESS THE DATA
CREATE THE MODEL
TRAIN THE MODEL
CREATE GUI TO PREDICT THE DIGIT



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PAINS

REQUIRES LARGE AMOUNT OF TRAINING DATA
NOT GOOD FOR SYSTEM, LARGE VARIATION EXISTS IN HANDWRITING

GAINS

CLASSIFICATION TIME IS FAST
POWERFUL HIGH LEVEL FEATURES