

THINK AND FEEL?

what really counts
major preoccupations
worries & aspirations

User

What do they SEE?

environment
friends
what the market offers

different
hanwritten
digits are
seen

images of the
user are
uploaded by
the user

understands
image data
automatically

What do they SAY AND DO?

attitude in public
appearance
behavior towards others

proper
commands
should be
given

observes
different
handwriting
provided by
the user

reduces
human
effort

What do they HEAR?

what friends say
what boss say
what influencers say

features are
based on
shape
analysis

detected
result is
returned to
the user
interface

handwritings
are identified

70000
different
handwritten
digits

understands
automatically

own style of
writing

PAIN

fears
frustrations
obstacles

tricky for
programmer
to provide
enough
examples

sometimes
character looks
similar making it
hard for the
computer to
recognise
accurately

difficult to build
handwritten digit
recognition
algorithm

GAIN

"wants" / needs
measures of success
obstacles

generative
models can
perform
recognition
driven
segmentations

rich description
of the
instantiation
such as writing
style

effective in
obtaining
good
recognition
accuracies