

TRAINING PHASE

8 users,
10 actions
per user

leave-one-out
method

partition
training
and
testing
space

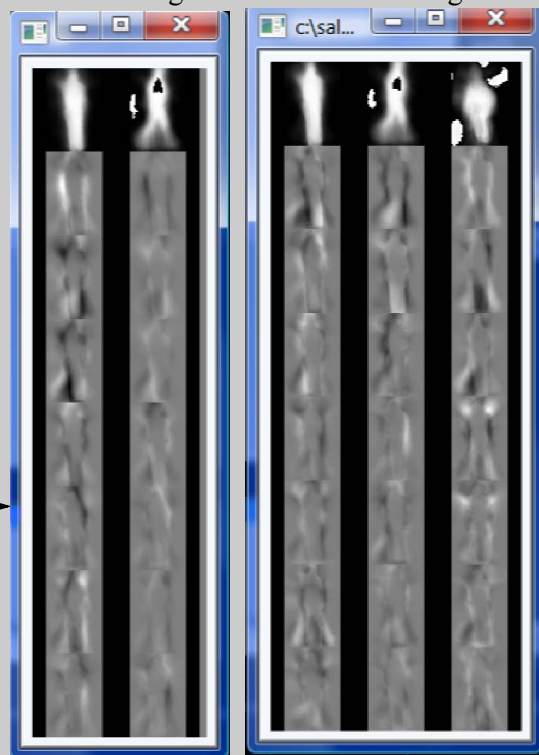
RVQ
training

7 training
users

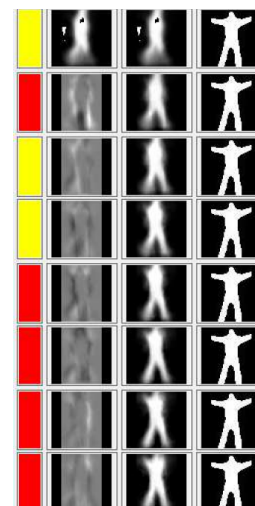
1 test
user

RVQ codebooks

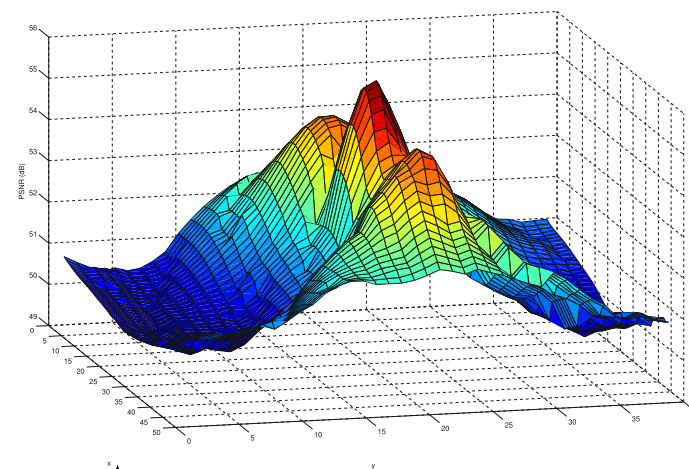
2 templates/stage 3 templates/stage
256 possible images 6,561 possible images
8 bits/image 13 bits/image



reconstruction



reconstruction PSNR

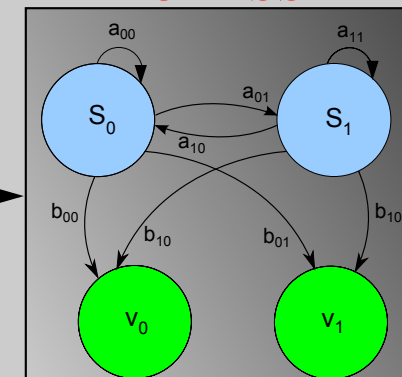


RVQ
decoding

RVQ codewords

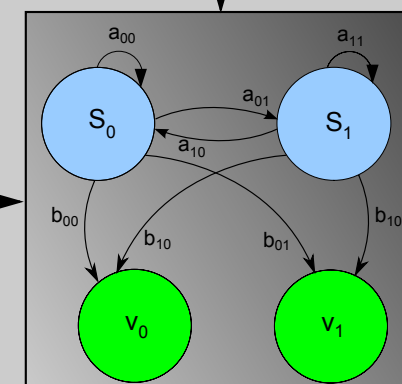
action 1
user 1, 30 images
⋮
user 7, 30 images
⋮
action 10
user 1, 30 images
⋮
user 7, 30 images

HMM CLASSIFIER



10 models, 1 per action

action 1
user 8, 30 images
⋮
⋮
action 10
user 8, 30 images



classification
of every
action
of
test user

TESTING PHASE