

Salman Aslam

CSIP (Center for Signal and Image Processing)

ECE (School of Electrical and Computer Engineering)

GT (Georgia Institute of Technology)

Vision, Video, Graphics

with .NET, OpenCV, OpenGL and Matlab

Status:

Navigation

Jump to

Run to

7

Frame #

2

Frames proc.

2

Color channel

RGB

r

g

b

h

s

v

y

u

v

Y

U

V

Accuracy

Curr ->

AVG ->

Curr ->

AVG ->

File size(kB),Compression ratio,Bitrate(Kbps,30fps)

-

-

-

-

-

-

-

-

-

-

-

PSNR (YUV) dB

Inf

Inf

Inf

19.37

33.45

33.40

19.42

33.28

33.44

5.479

26.81

25.68

5.534

26.82

25.66

5.479

26.81

25.68

5.544

26.81

25.67

Mouse

Dim.

640

480

RGB

145

138

119

145

138

119

Pixel

171

145

YUV

137

117

133

137

116

132

MB

10

9

HSV

43

45

145

43

45

145

clk MB

-

-

RGB

0

0

0

0

0

0

YUV

0

128

128

0

128

128

BLK

21

18

HSV

0

0

0

0

0

0

Control Panel

Computer Vision

Signal Processing

3D

Initialize

Execute

I/O

Status

ROI

YUV

Matlab

Debug

Database

ECE8833-1

Capture screen

One click settings

PETS 2001

Templ. Mat.

Camshift (util)

3\_AVSS2009

PETS 2007

Harris

CamshiftMPEG

8\_ICIP2010

ECE8833

Harris (cmp)

myMPEG4Intra

test

Thames

Pyr Seg

Mul. tgt. trk.

GreenBox

YUV

Basic ComOp

Input

None

Images

INP\_IMG\\

Video

01\\

foreman\_352x288.yuv

Webcam

Output

None

Images

OUT\_IMG\\

Video

01\\

foreman\_352x288\_mine.yuv

Signal Processing

test

OPT: Combinatorial Optimization

CMP: Ychannel

All pass

CMP: MPEG4\_mine

CMP: MPEG4\_Microsoft

Computer vision

Paper\_3: AVSS2009

Paper\_2: IPCV2009

TRK: camshift

TRK: camshift (utilities.cpp)

TRK: camshift with MPEG

TRK: median image

TRK: foreground (unlabeled and

TRK: tracking

Graphical overlays

Current pixel

Current 16x16 macroblock (MB)

Current 8x8 block (BLK)

R, G, B translucent overlays

Grid (aligned to MB)

Grid (aligned to BLK)

Current ROI

Clicked MB

Measure

Enabled

0

Images 1 - 4

Images 5 - 8

Curr ->

AVG ->

Time (msec)

823.1

692.9

Frame rate

1,214

1,495

Total RAM (kB)

47708

47730

delta RAM (kB)

-44

3964

Frame 1

Frame 2

Tue Apr 03 13:28:34 2007

Foreground, unlabeled

Foreground, labeled