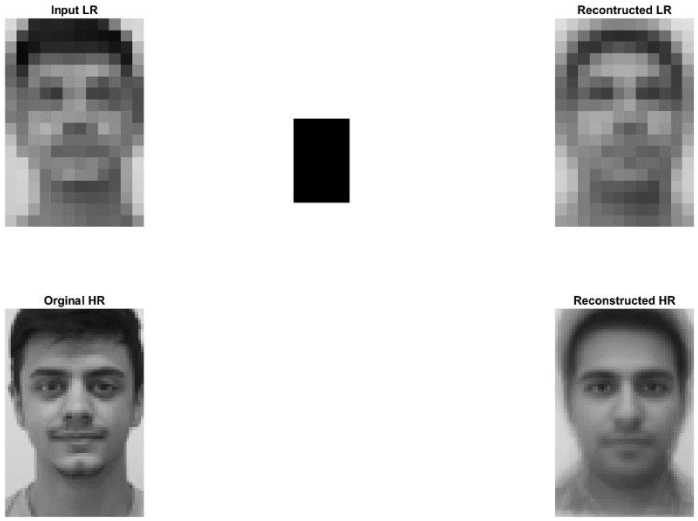
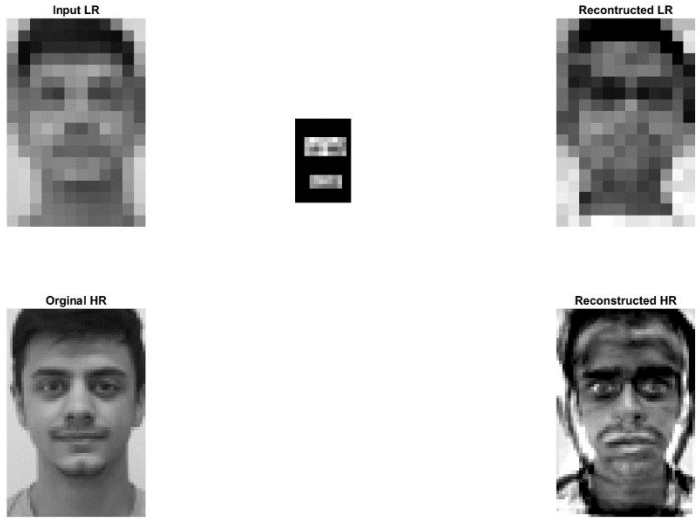
Single input :

	Factor	*PSNR*	*IBPSNR (eye lip fac =4)*
1.	*Eye=1 Lips=1*	*18.0977*	*29.1934*
2.	*Eye=1.5 Lips=1.5*	*11.7850*	*28.7284*
3.	*Eye=2 Lips=2*	*17.0470*	*30.1061*
4.	*Eye=2.5 Lips=2.5*	*13.5650*	*25.7816*
5.	*Eye=5 Lips=5*	*18.3030*	*29.6040*

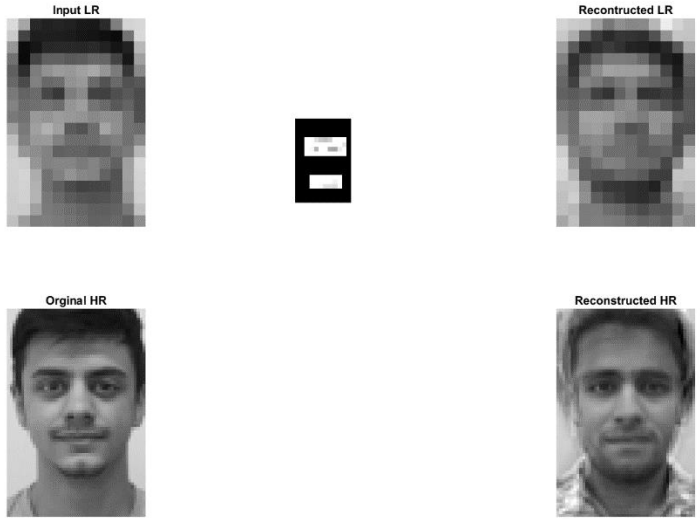


1:

2:



3:



4:

Input LR
Recontructed LR
Orginal HR
Reconstructed HR
Input LR
Recontructed LR
Orginal HR
Reconstructed HR

5:

Multiple input :

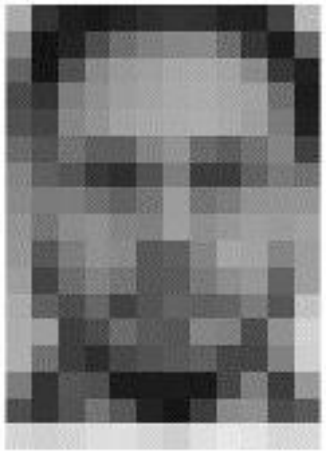
PSNR =

10.6811

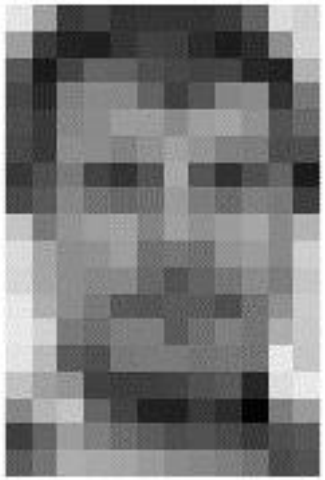
IBPSNR =

100.5119

Input LR

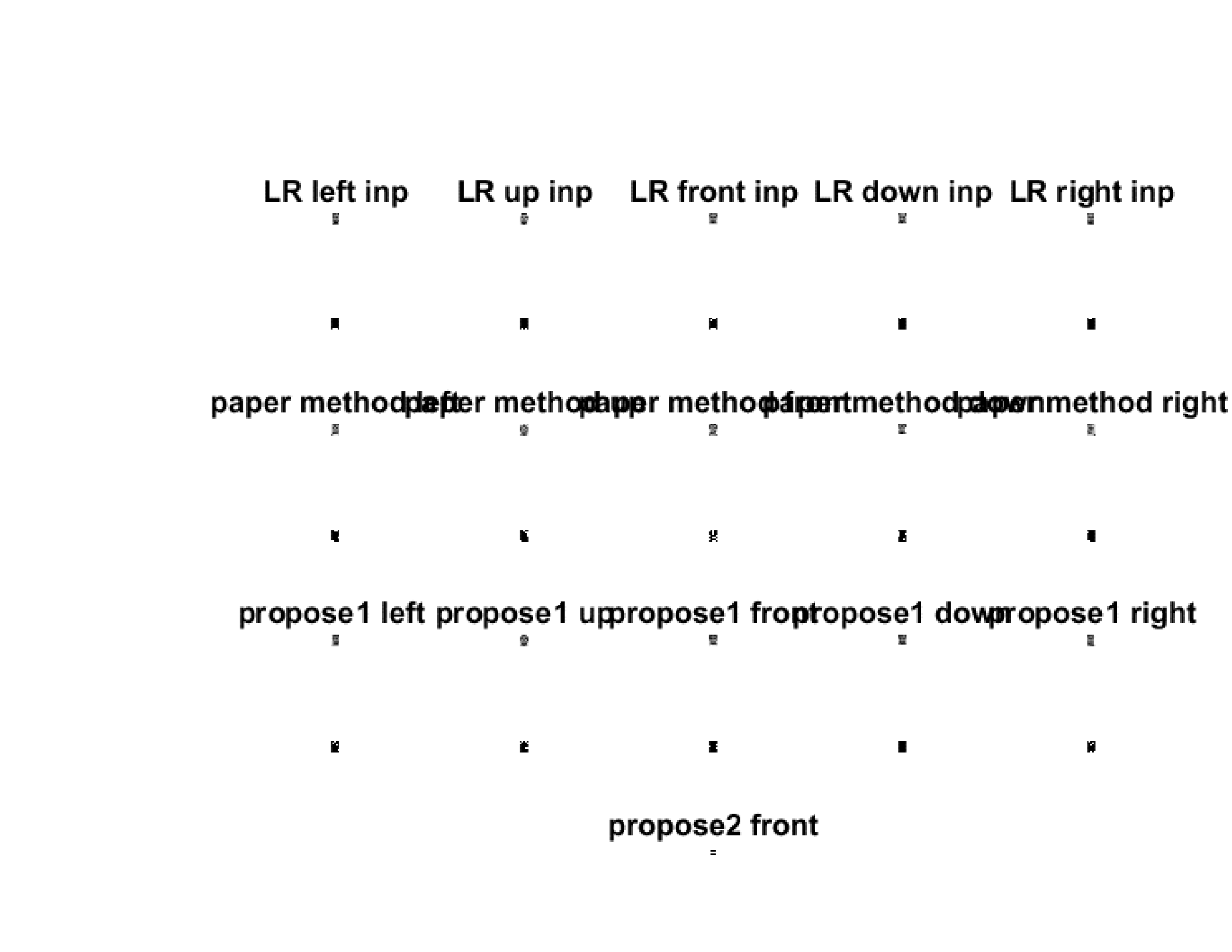


Recontructed LR



Reconstructed HR

Orginal HR


LR left inp
LR up inp
LR front inp
LR down inp
LR right inp
paper method left
paper method up
paper method front
paper method down
paper method right
propose1 left
propose1 up
propose1 front
propose1 down
propose1 right
propose2 front

LR down inp

Multiple down

orginal HR down

LR left inp

Multiple left

orginal HR left

LR front inp

Multiple front

orginal HR front

LR right inp

Multiple right

orginal HR right

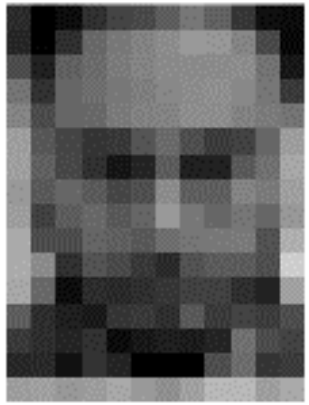
LR up inp

Multiple up

orginal HR up

Multiple left
Multiple up
Multiple front
Multiple down
Multiple right

LR down in Ziang Mas method front propose2 front orginal HR front



Ziang Mas left Skeleton
Ziang Mas front Skeleton
Ziang Mas right Skeleton
LR down sampled
Proposed1 left Skeleton
Proposed1 front Skeleton
Proposed1 right Skeleton
HR left Skeleton
HR front Skeleton
HR right Skeleton

Ziang Mas method right
LR down input
propose1 left
propose1 up
propose1 front
propose1 down
propose1 right
orginal HR left
orginal HR up
orginal HR front
orginal HR down
orginal HR right

LR right inp

LR up inp

LR down inp

Single input proposed

Multiple input proposed

LR front inp

LR left inp

original HR

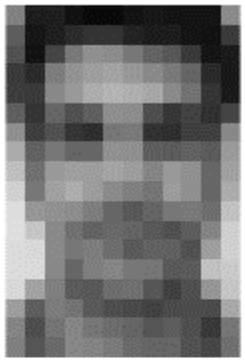
orginal HR Skeleton

Nearest neighbour :

	Factor	*PSNR*	*IBPSNR (eye & lip factor =4)*	*testclass*	*testangle*	*findClass*	*findeAngle*
1	*Eye=1 Lips=1*	*16.8071*	*26.1867*	*5*	*5*	*30*	*5*
1	*Eye=4 Lips=4*	*16.8071*	*26.1867*	*5*	*5*	*30*	*5*
2	*Eye=1 Lips=1*	*17.1814*	*27.5983*	*10*	*5*	*15*	*5*
2	*Eye=4 Lips=4*	*17.1814*	*27.5983*	*10*	*5*	*15*	*5*
3	*Eye=1 Lips=1*	*17.1426*	*28.7994*	*15*	*5*	*3*	*5*
3	*Eye=4 Lips=4*	*16.9718*	*28.0773*	*15*	*5*	*2*	*5*
4	*Eye=1 Lips=1*	*14.5141*	*31.0086*	*20*	*2*	*29*	*2*
4	*Eye=4 Lips=4*	*14.5141*	*31.0086*	*20*	*2*	*29*	*2*

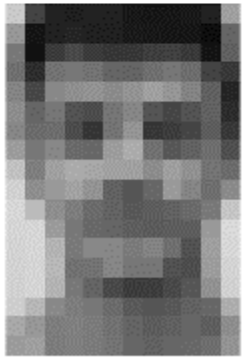
5	*Eye=1 Lips=1*	*14.9645*	*29.8494*	*25*	*4*	*2*	*4*
5	*Eye=4 Lips=4*	*15.2846*	*31.0534*	*25*	*4*	*18*	*4*

Orginal LR



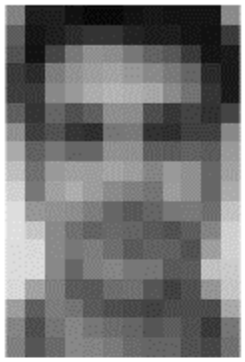
Orginal HR

Find LR



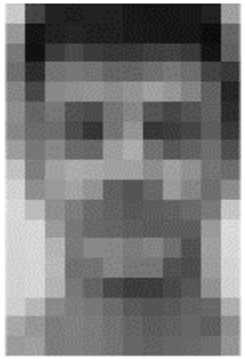
Find HR

Orginal LR



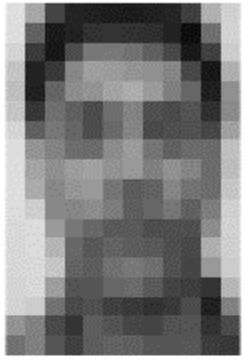
Orginal HR

Find LR



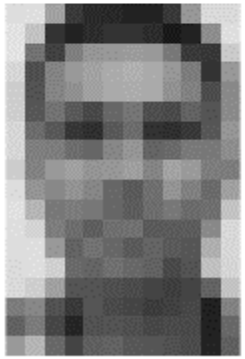
Find HR

Orginal LR



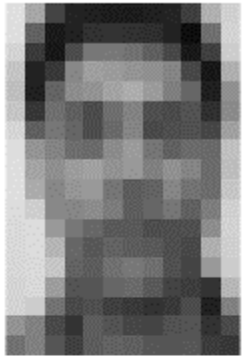
Orginal HR

Find LR



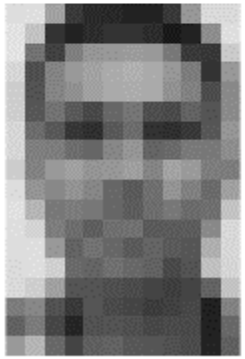
Find HR

Orginal LR



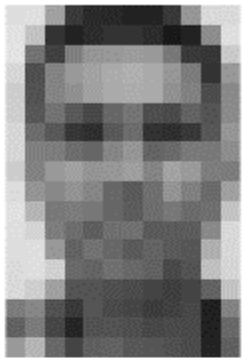
Orginal HR

Find LR



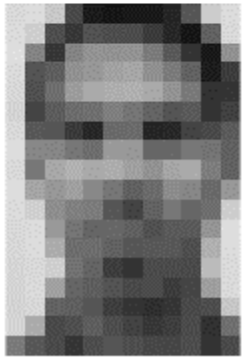
Find HR

Orginal LR



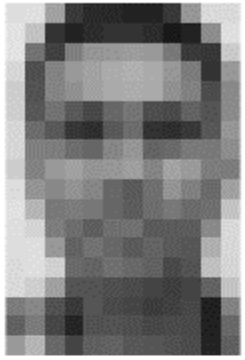
Orginal HR

Find LR



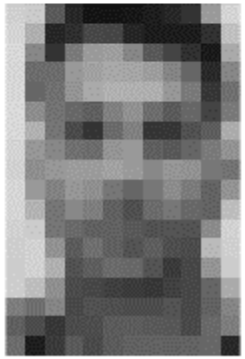
Find HR

Orginal LR



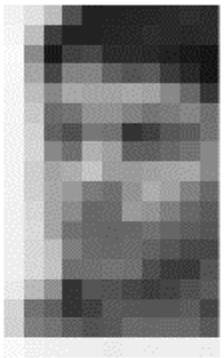
Orginal HR

Find LR



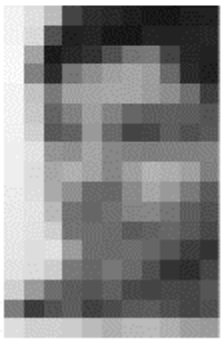
Find HR

Orginal LR



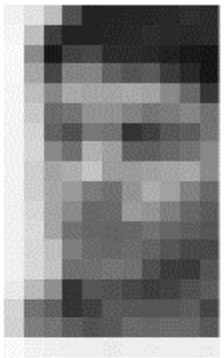
Orginal HR

Find LR



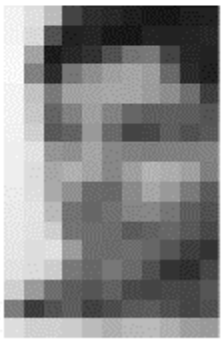
Find HR

Orginal LR



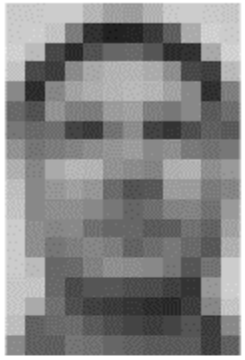
Orginal HR

Find LR



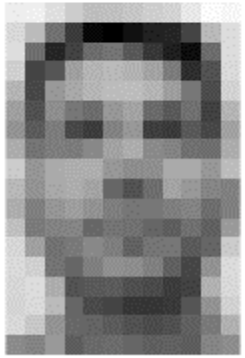
Find HR

Orginal LR



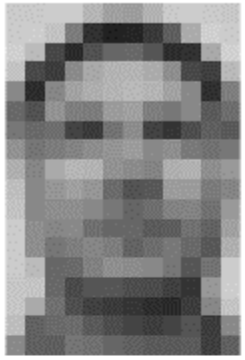
Orginal HR

Find LR



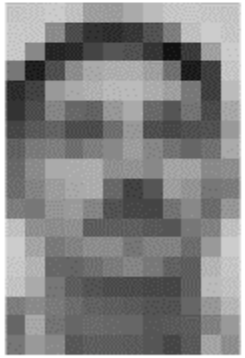
Find HR

Orginal LR



Orginal HR

Find LR



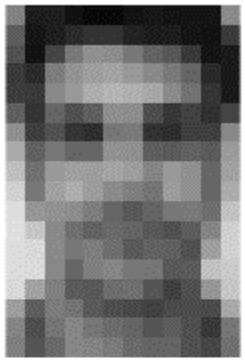
Find HR

Mahal Nearest neighbour :

	Factor	PSNR	IBPSNR (eye & lip factor =4)	testclass	testangle	findClass	findeAngle
1	Eye=1 Lips=1	11.1747	27.3274	5	5	46	3
1	Eye=4 Lips=4	14.8925	35.6423	5	5	61	3
2	Eye=1 Lips=1	10.1447	28.7993	10	5	47	3
2	Eye=4 Lips=4	12.5165	33.5603	10	5	61	3
3	Eye=1 Lips=1	10.2974	27.0483	15	5	55	3
3	Eye=4 Lips=4	12.1137	36.1261	15	5	61	3
4	Eye=1 Lips=1	12.1348	27.9669	20	2	36	2
4	Eye=4 Lips=4	12.6233	26.2614	20	2	55	3

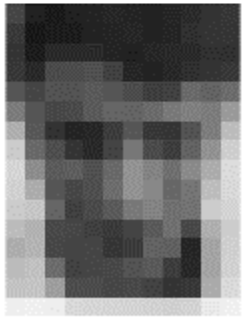
5	*Eye=1 Lips=1*	*10.0725*	*26.3648*	*25*	*4*	*55*	*3*
5	*Eye=4 Lips=4*	*10.0725*	*26.3648*	*25*	*4*	*55*	*3*

Orginal LR



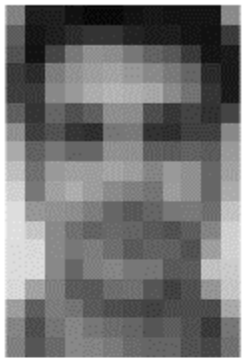
Orginal HR

Find LR



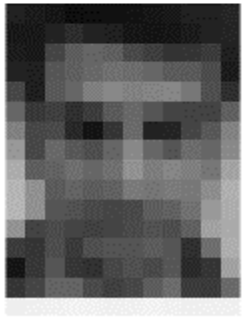
Find HR

Orginal LR

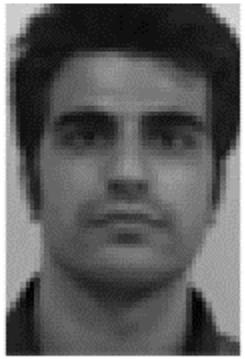


Orginal HR

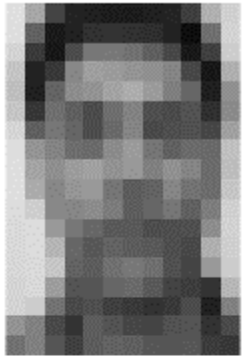
Find LR



Find HR

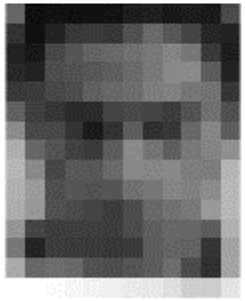


Orginal LR



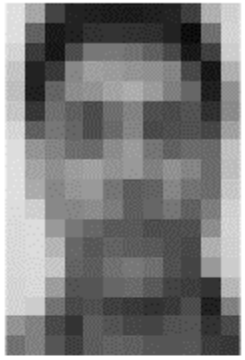
Orginal HR

Find LR



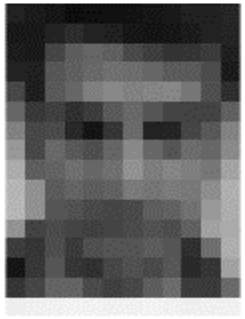
Find HR

Orginal LR

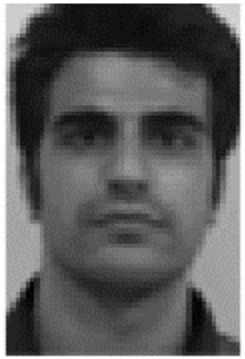


Orginal HR

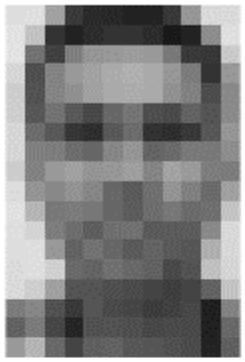
Find LR



Find HR

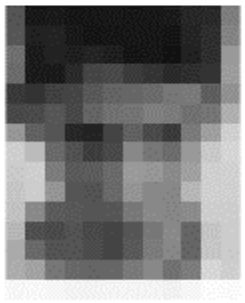


Orginal LR



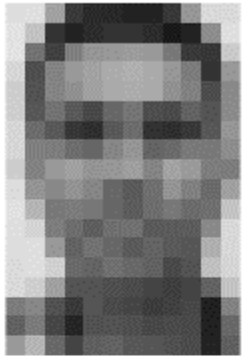
Orginal HR

Find LR



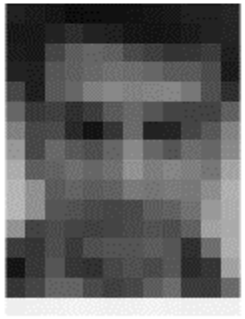
Find HR

Orginal LR

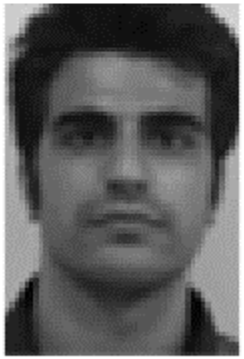


Orginal HR

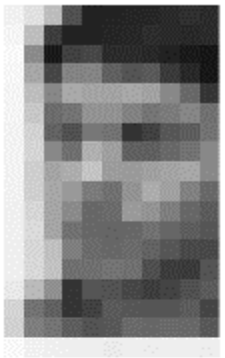
Find LR



Find HR

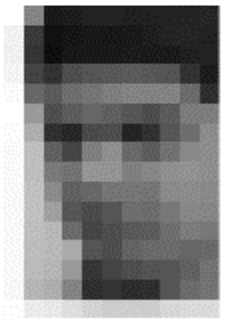


Orginal LR



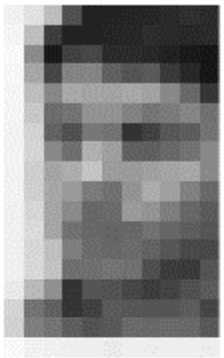
Orginal HR

Find LR



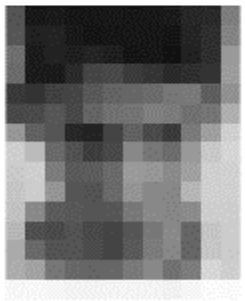
Find HR

Orginal LR



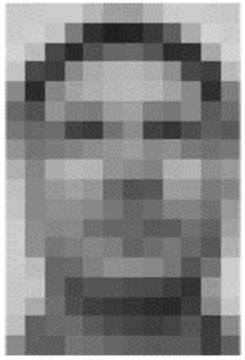
Orginal HR

Find LR



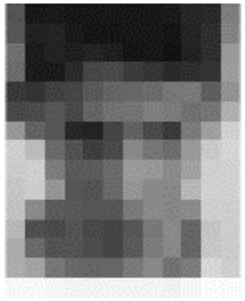
Find HR

Orginal LR



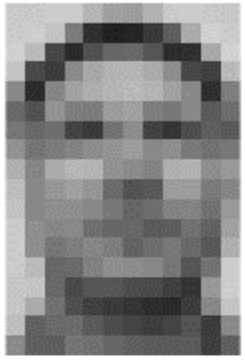
Orginal HR

Find LR



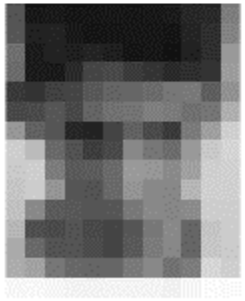
Find HR

Orginal LR



Orginal HR

Find LR

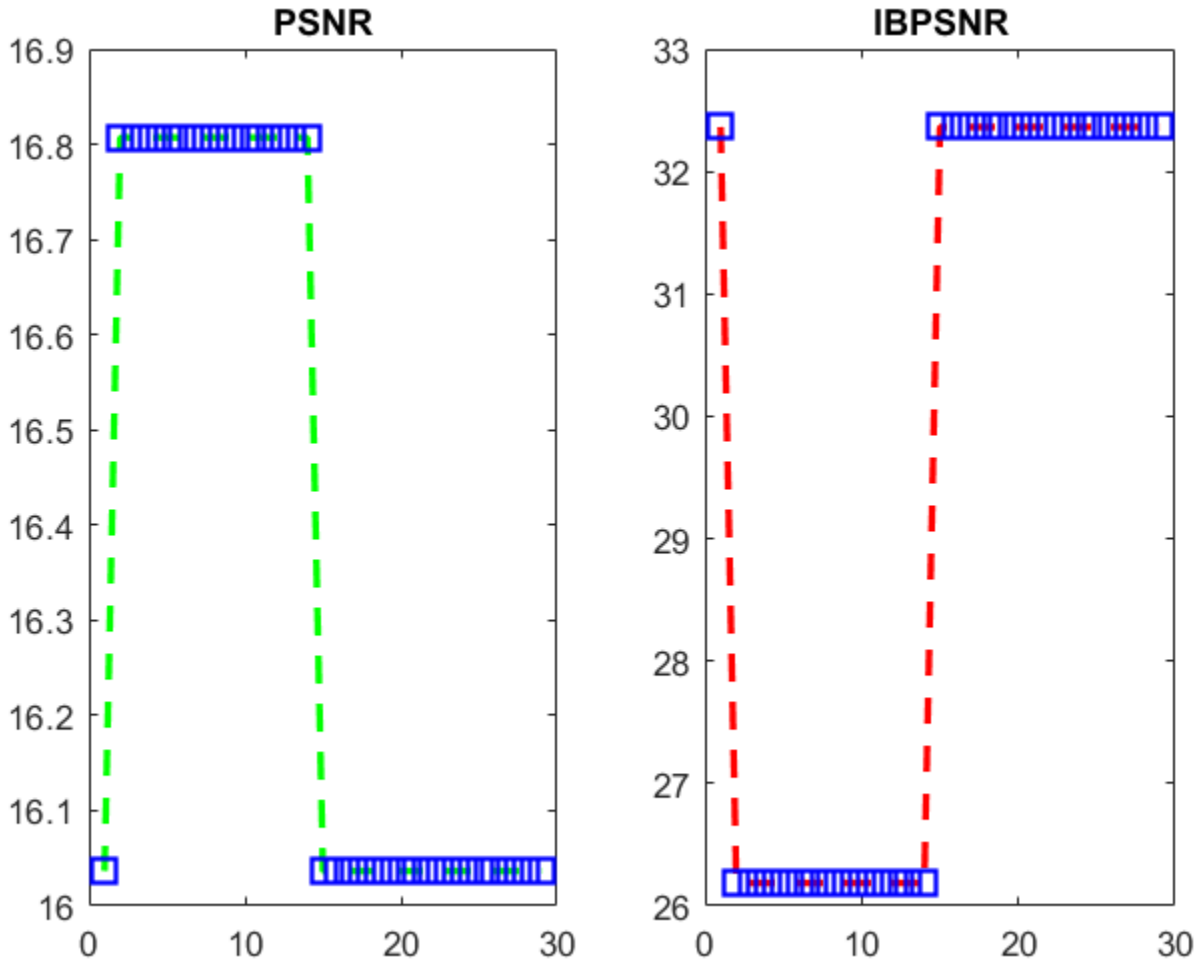


Find HR

K N N

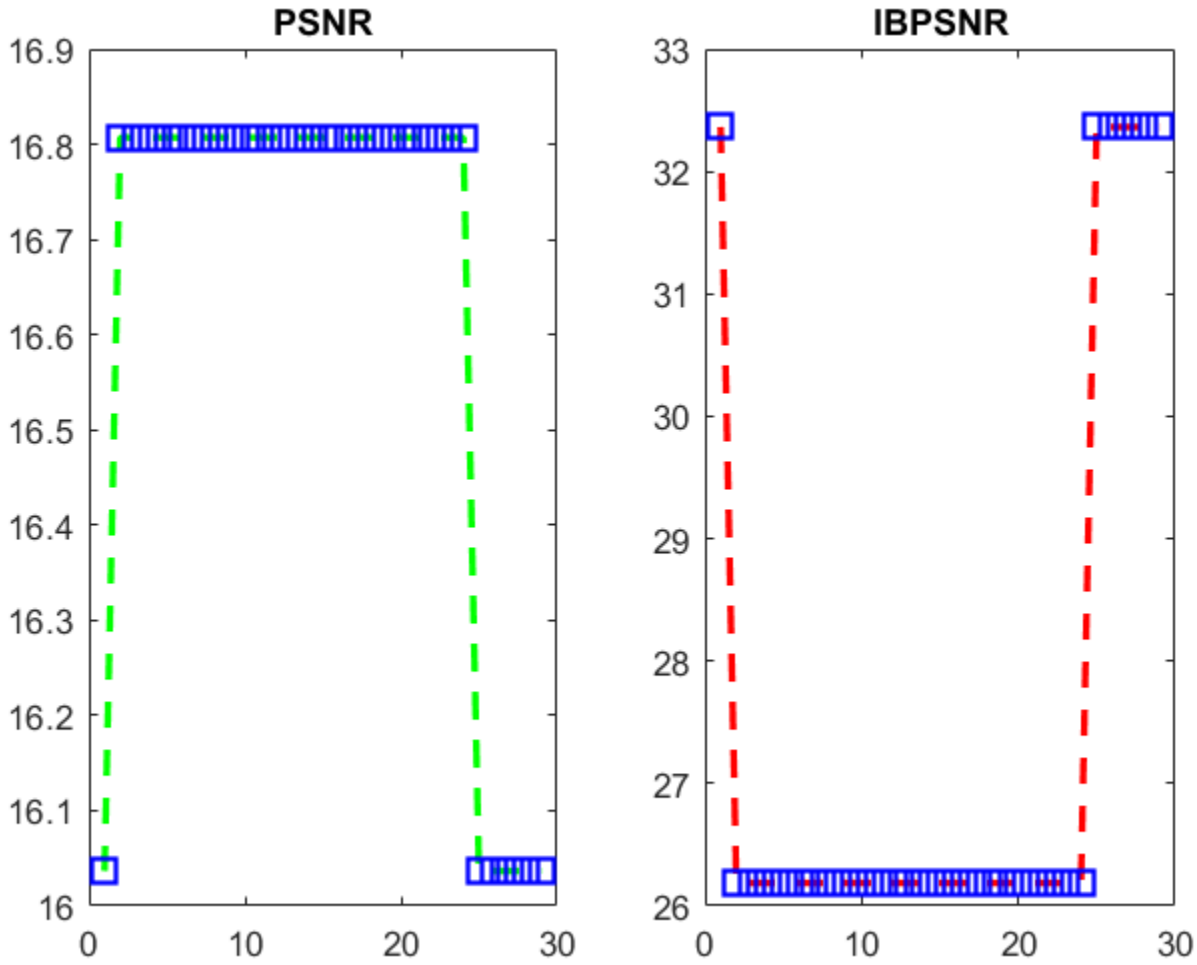
	Factor	*PSNR*	*IBPSNR (eye & lip factor =4)*	*testclass*	*testangle*	*M*	*findClass*
1	*Eye=1 Lips=1*	*16.0367*	*32.3629*	*5*	*5*	*20*	*17*
1	*Eye=4 Lips=4*	*16.0367*	*32.3629*	*5*	*5*	*26*	*17*
2	*Eye=1 Lips=1*	*17.1814*	*27.5983*	*10*	*5*	*26*	
2	*Eye=4 Lips=4*	*17.1814*	*27.5983*	*10*	*5*	*26*	*15*
3	*Eye=1 Lips=1*	*17.1426*	*28.7994*	*15*	*5*	*5*	*3*
3	*Eye=4 Lips=4*	*17.1426*	*28.7994*	*15*	*5*	*5*	*2*
4	*Eye=1 Lips=1*	*14.5141*	*31.0086*	*20*	*2*	*5*	*29*
4	*Eye=4 Lips=4*	*14.5141*	*31.0086*	*20*	*2*	*5*	*29*

5	*Eye=1 Lips=1*	*14.9645*	*29.8494*	*25*	*4*	*5*	*2*
5	*Eye=4 Lips=4*	*15.2846*	*31.0534*	*25*	*4*	*5*	*18*


PSNR
16.9
16.8
16.7
16.6
16.5
16.4
16.3
16.2
16.1
16
0
10
20
30
IBPSNR
33
32
31
30
29
28
27
26
0
10
20
30

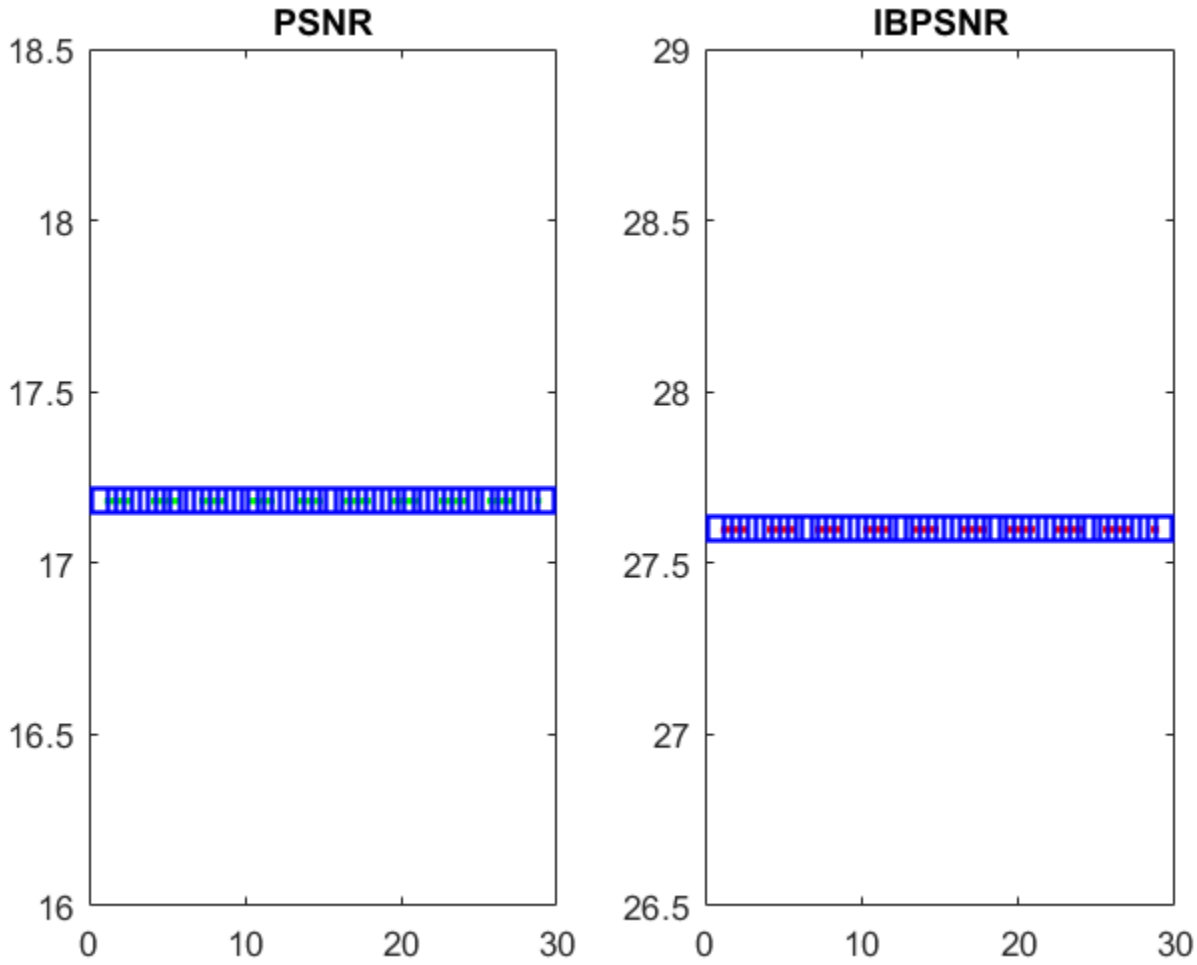
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
16.9
16.8
16.7
16.6
16.5
16.4
16.3
16.2
16.1
16
0
10
20
30
IBPSNR
33
32
31
30
29
28
27
26
0
10
20
30

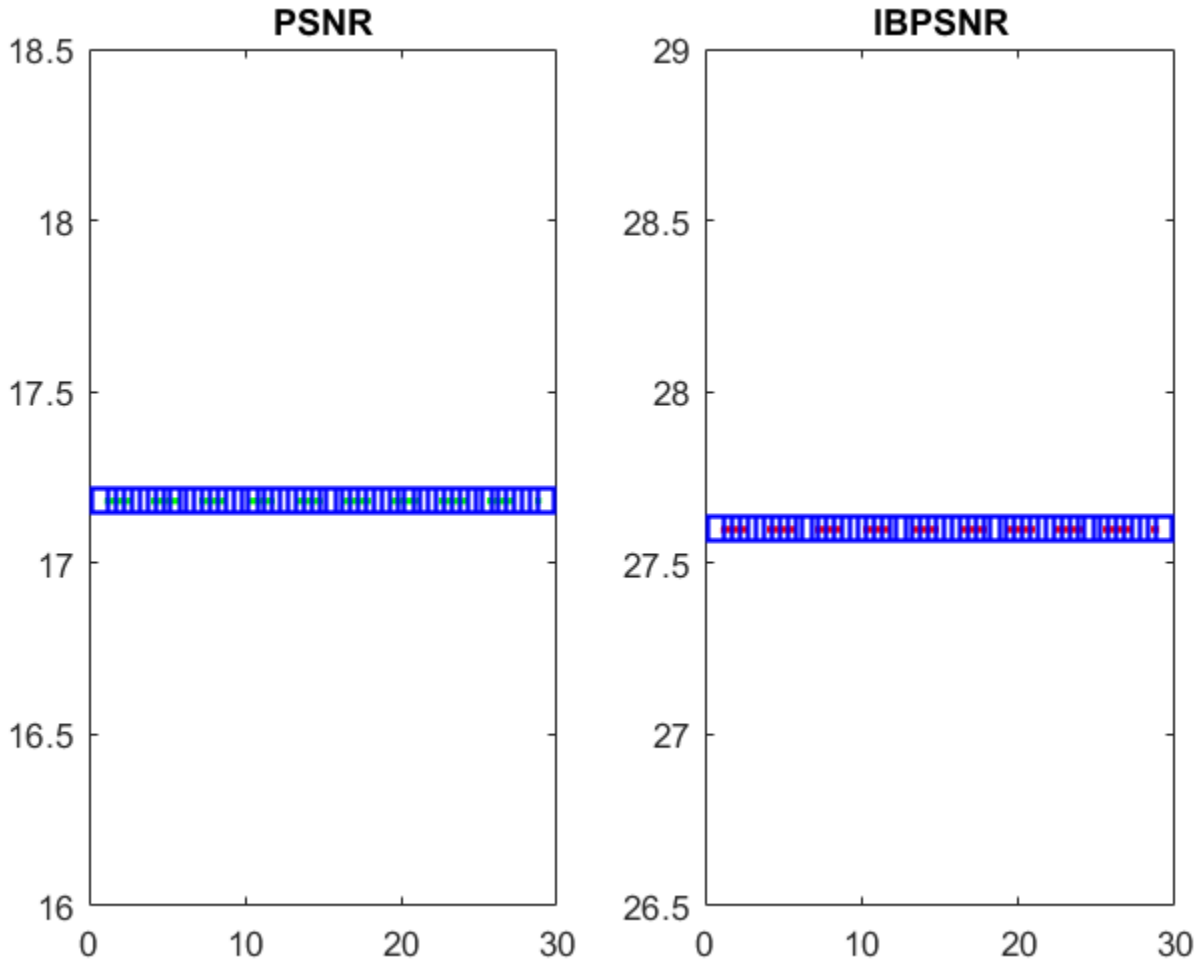
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
18.5
18
17.5
17
16.5
16
0
10
20
30
IBPSNR
29
28.5
28
27.5
27
26.5
0
10
20
30

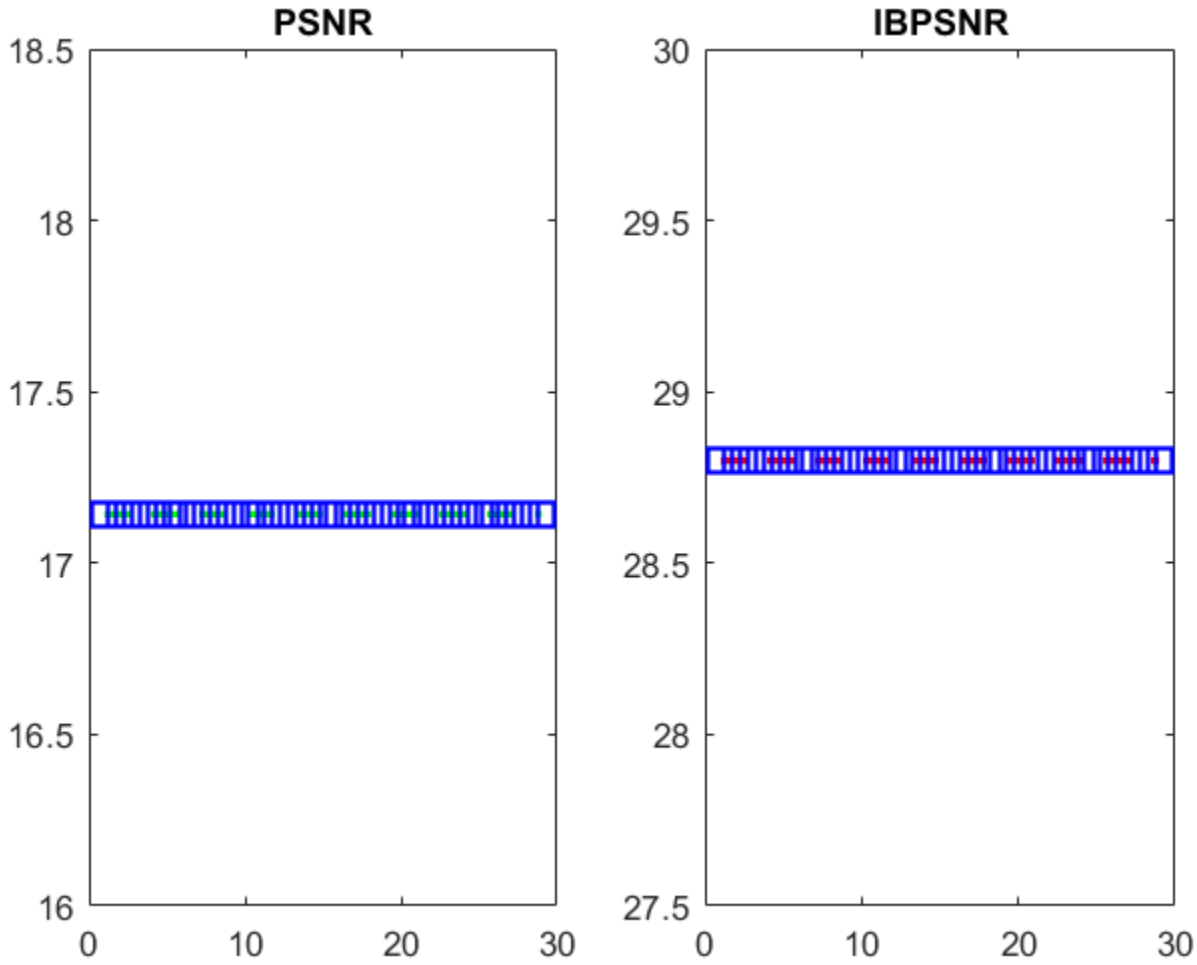
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
18.5
18
17.5
17
16.5
16
0
10
20
30
IBPSNR
29
28.5
28
27.5
27
26.5
0
10
20
30

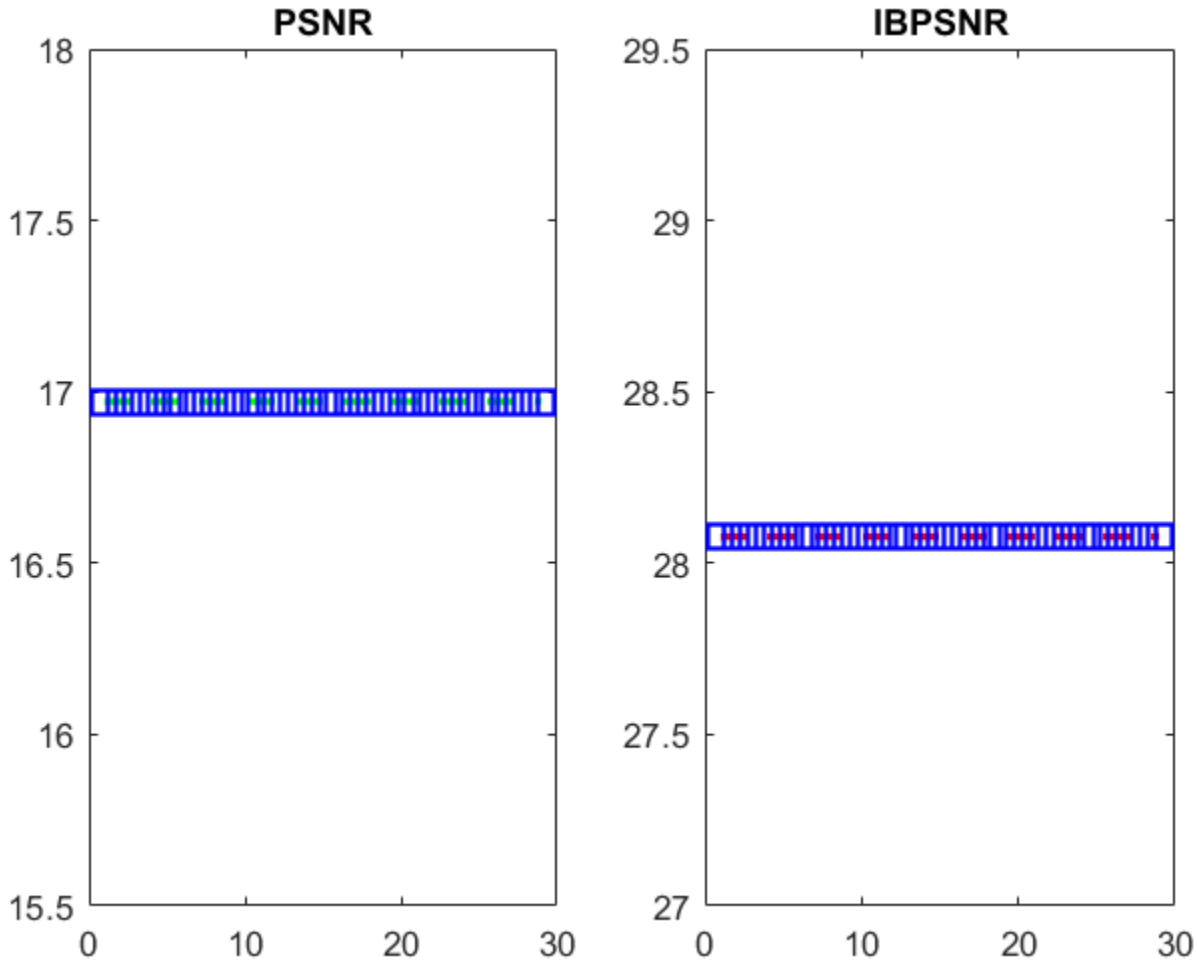
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
18.5
18
17.5
17
16.5
16
0
10
20
30
IBPSNR
30
29.5
29
28.5
28
27.5
0
10
20
30

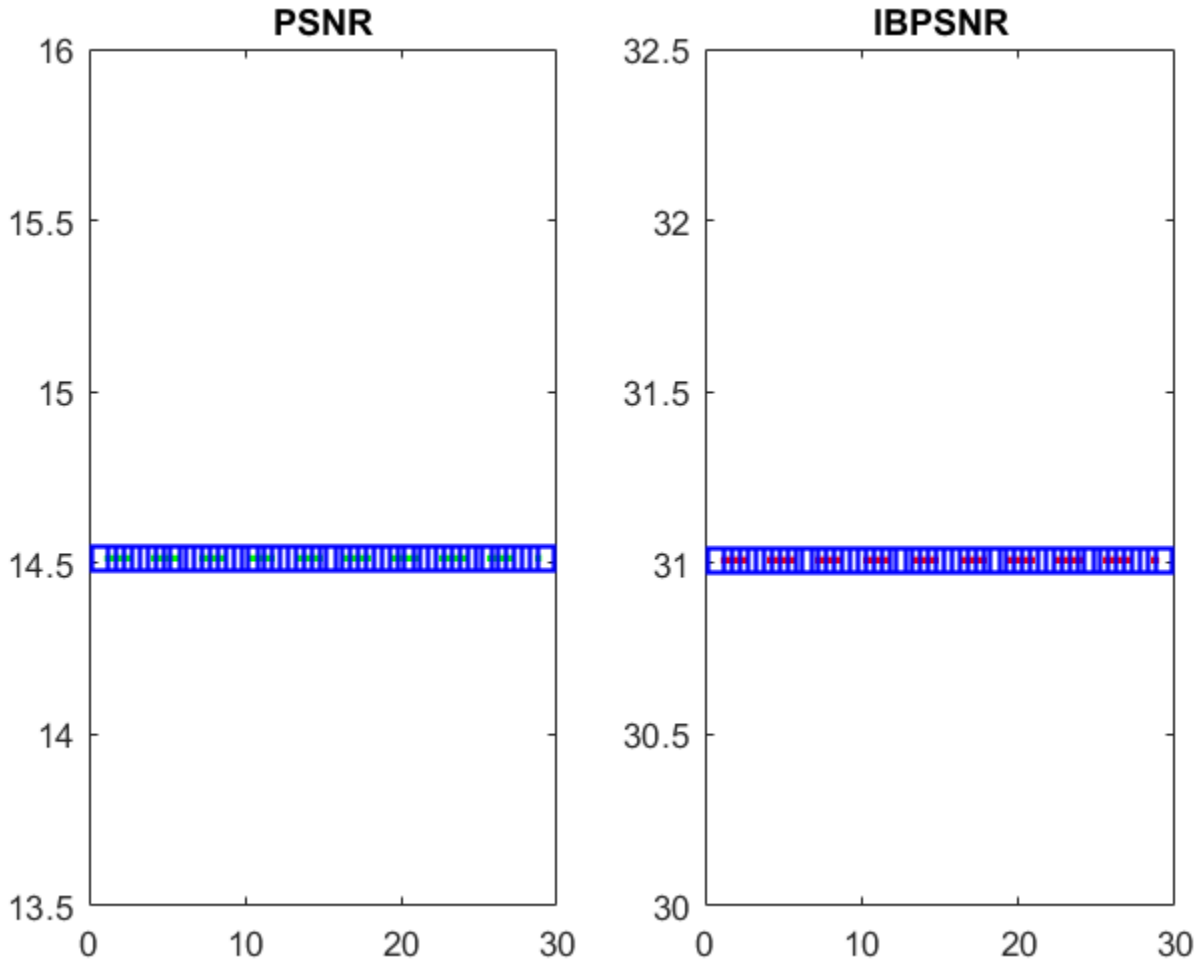
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
18
17.5
17
16.5
16
15.5
0
10
20
30
IBPSNR
29.5
29
28.5
28
27.5
27
0
10
20
30

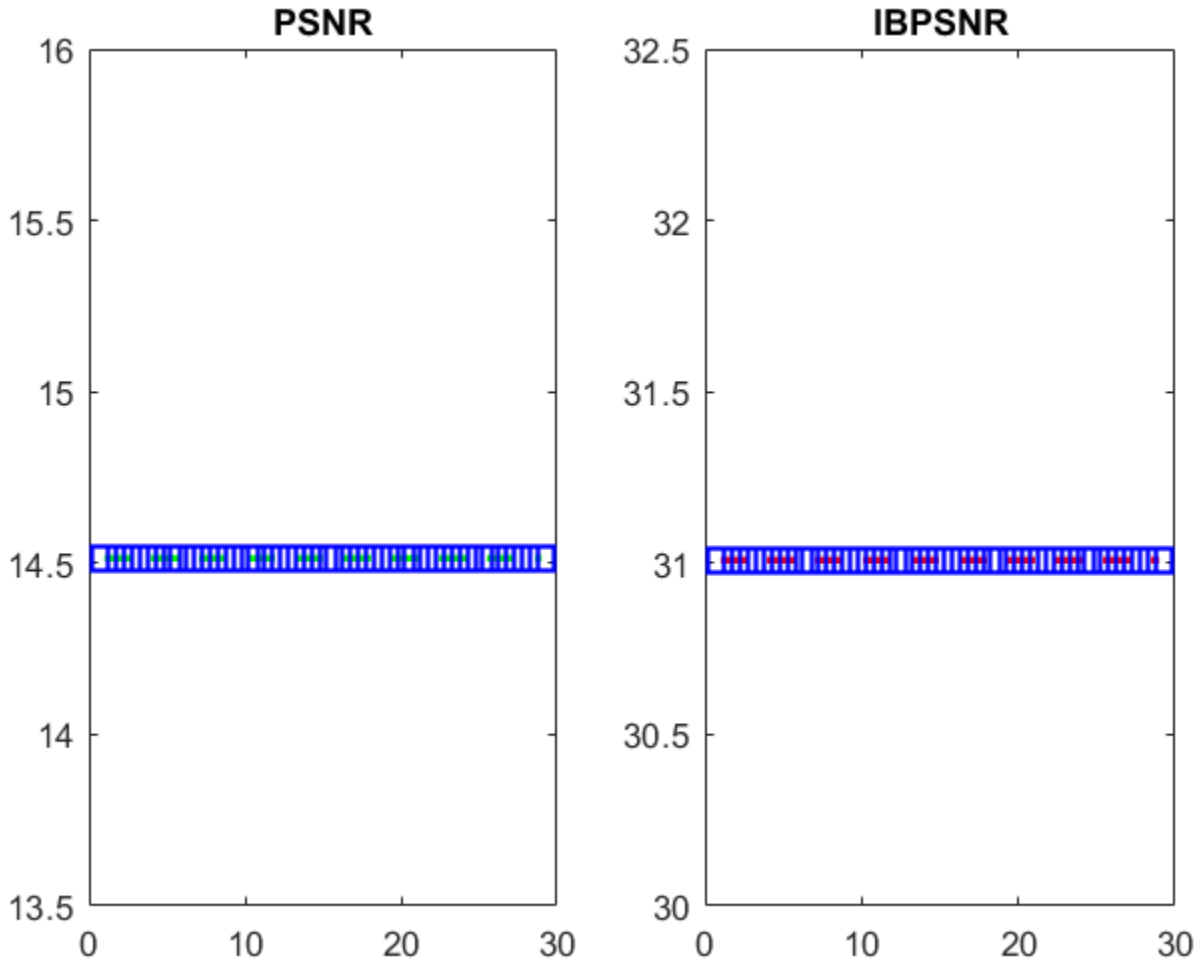
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
16
15.5
15
14.5
14
13.5
0
10
20
30
IBPSNR
32.5
32
31.5
31
30.5
30
0
10
20
30

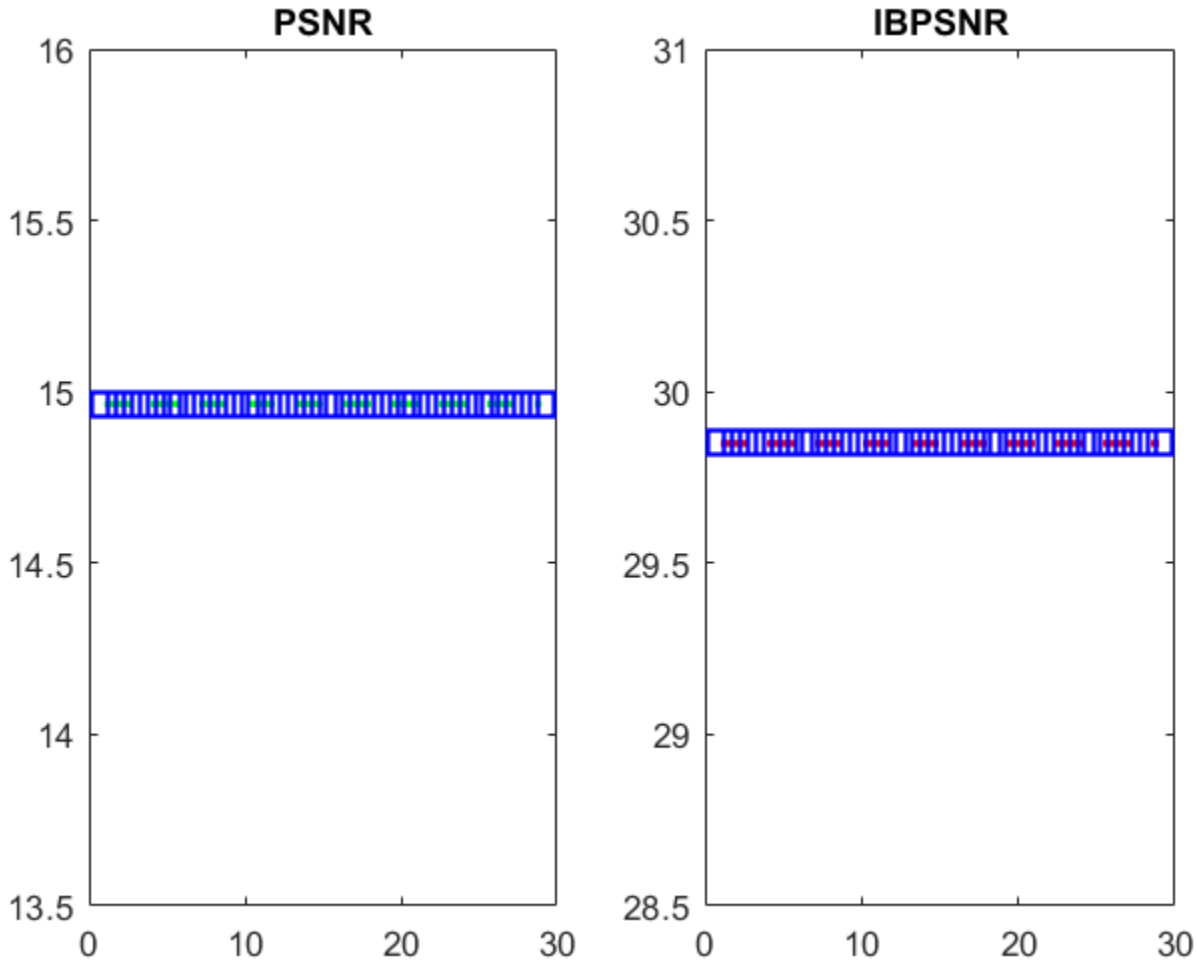
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
16
15.5
15
14.5
14
13.5
0
10
20
30
IBPSNR
32.5
32
31.5
31
30.5
30
0
10
20
30

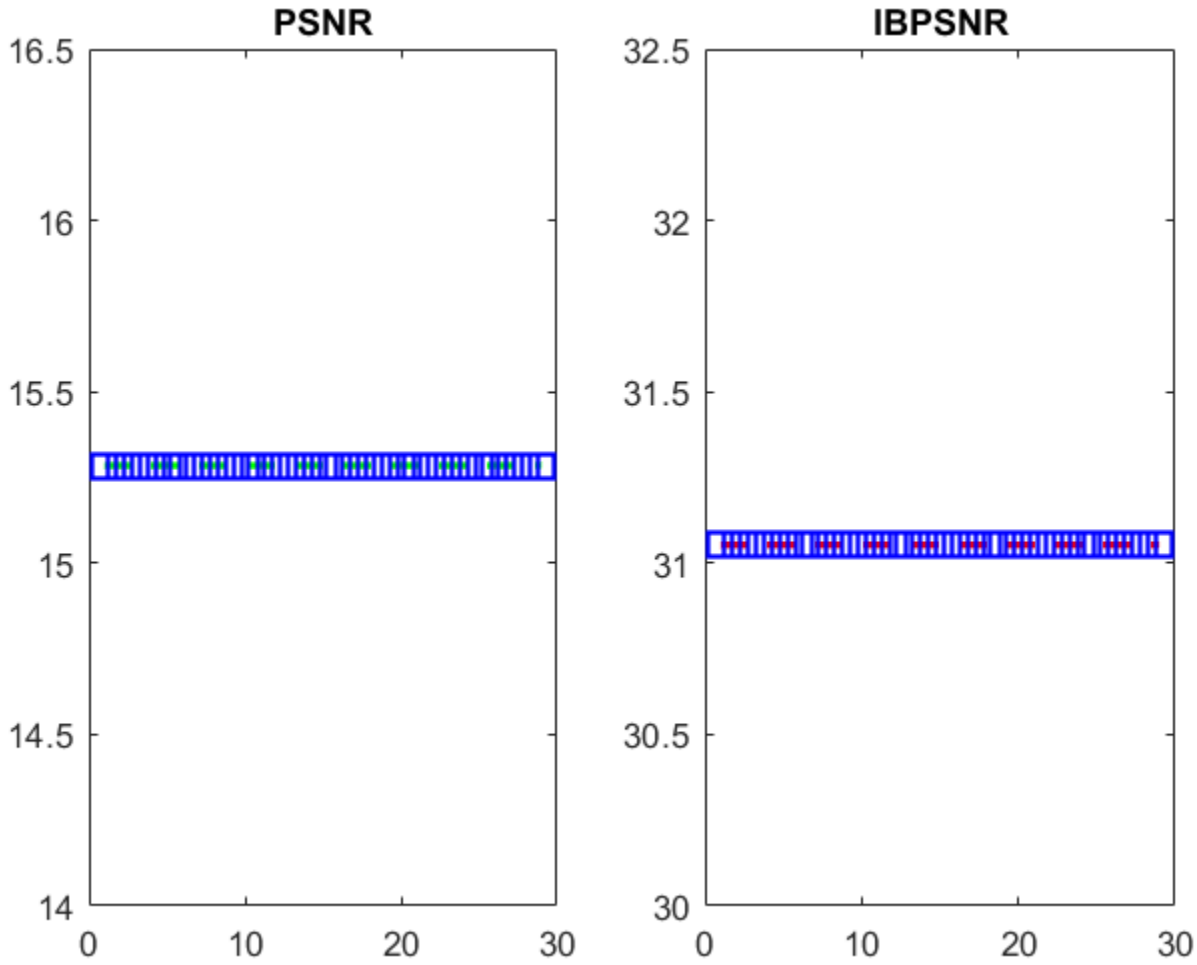
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
16
15.5
15
14.5
14
13.5
0
10
20
30
IBPSNR
31
30.5
30
29.5
29
28.5
0
10
20
30

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
16.5
16
15.5
15
14.5
14
0
10
20
30
IBPSNR
32.5
32
31.5
31
30.5
30
0
10
20
30

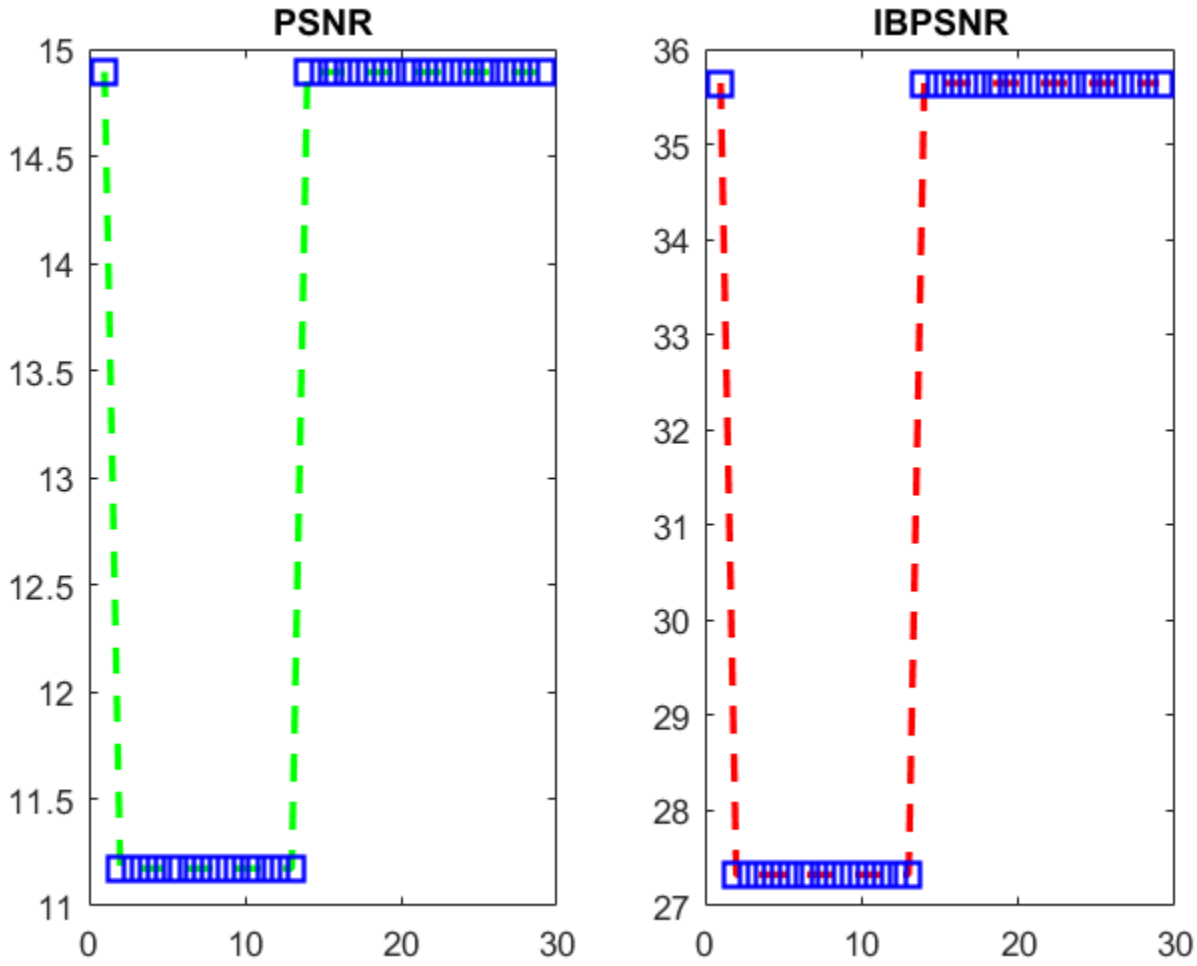
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR

K N N mahal

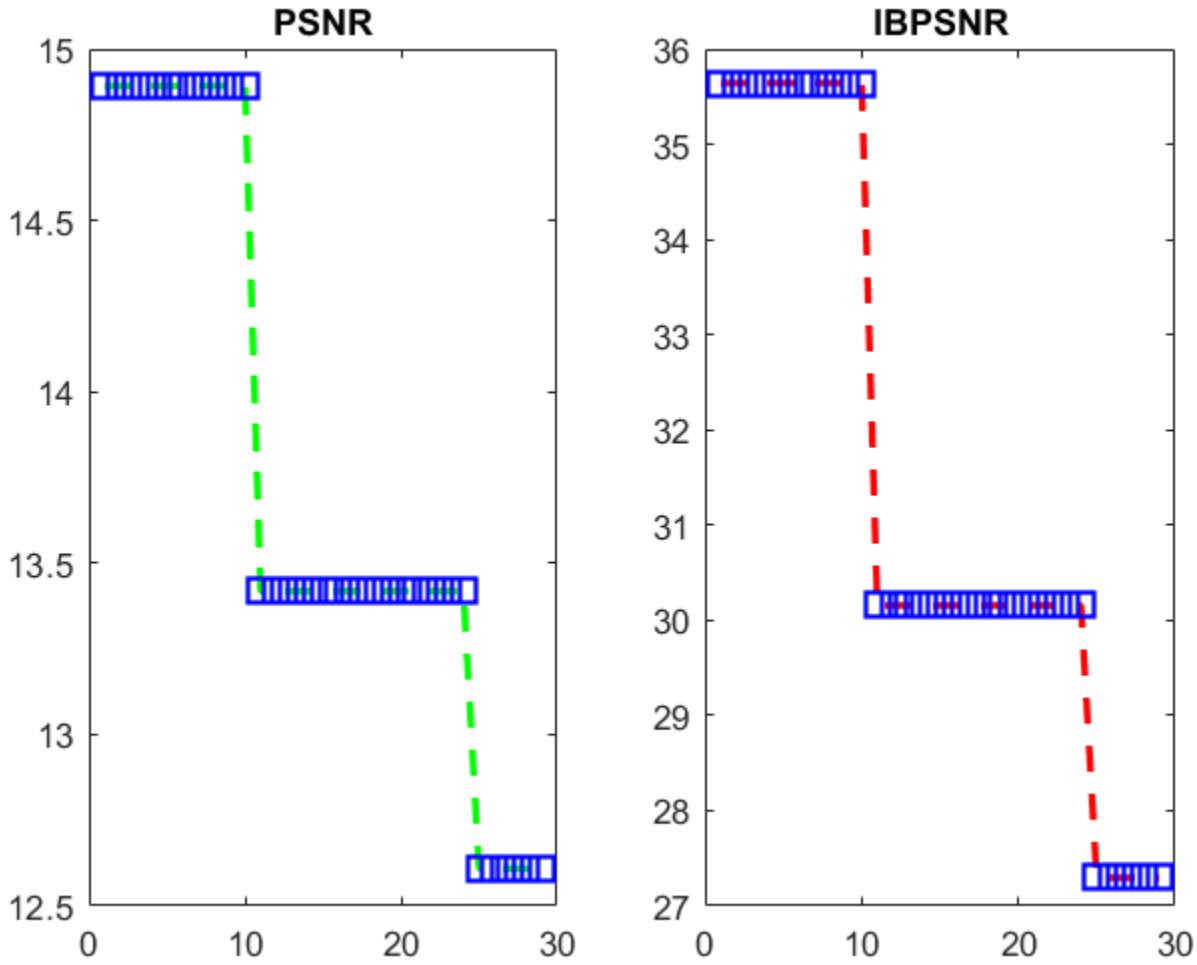
	Factor	*PSNR*	*IBPSNR (eye & lip factor =4)*	*testclass*	*testangle*	*M*	*findClass*
1	*Eye=1 Lips=1*	*14.8925*	*35.6423*	*5*	*5*	*15*	*61*
1	*Eye=4 Lips=4*	*14.8925*	*35.6423*	*5*	*5*	*5*	*61*
2	*Eye=1 Lips=1*	*10.1447*	*28.7993*	*10*	*5*	*20*	*47*
2	*Eye=4 Lips=4*	*10.1447*	*28.7993*	*10*	*5*	*20*	*47*
3	*Eye=1 Lips=1*	*9.1647*	*28.6425*	*15*	*5*	*20*	*50*
3	*Eye=4 Lips=4*	*12.1137*	*36.1261*	*15*	*5*	*20*	*61*
4	*Eye=1 Lips=1*	*14.0681*	*30.2515*	*20*	*2*	*30*	*46*

4	*Eye=4 Lips=4*	*12.0355*	*27.0195*	*20*	*2*	*5*	*54*
5	*Eye=1 Lips=1*	*10.7964*	*29.9036*	*25*	*4*	*15*	*46*
5	*Eye=4 Lips=4*	*10.0725*	*26.3648*	*25*	*4*	*15*	*55*


PSNR
15
14.5
14
13.5
13
12.5
12
11.5
11
0
10
20
30
IBPSNR
36
35
34
33
32
31
30
29
28
27
0
10
20
30

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR

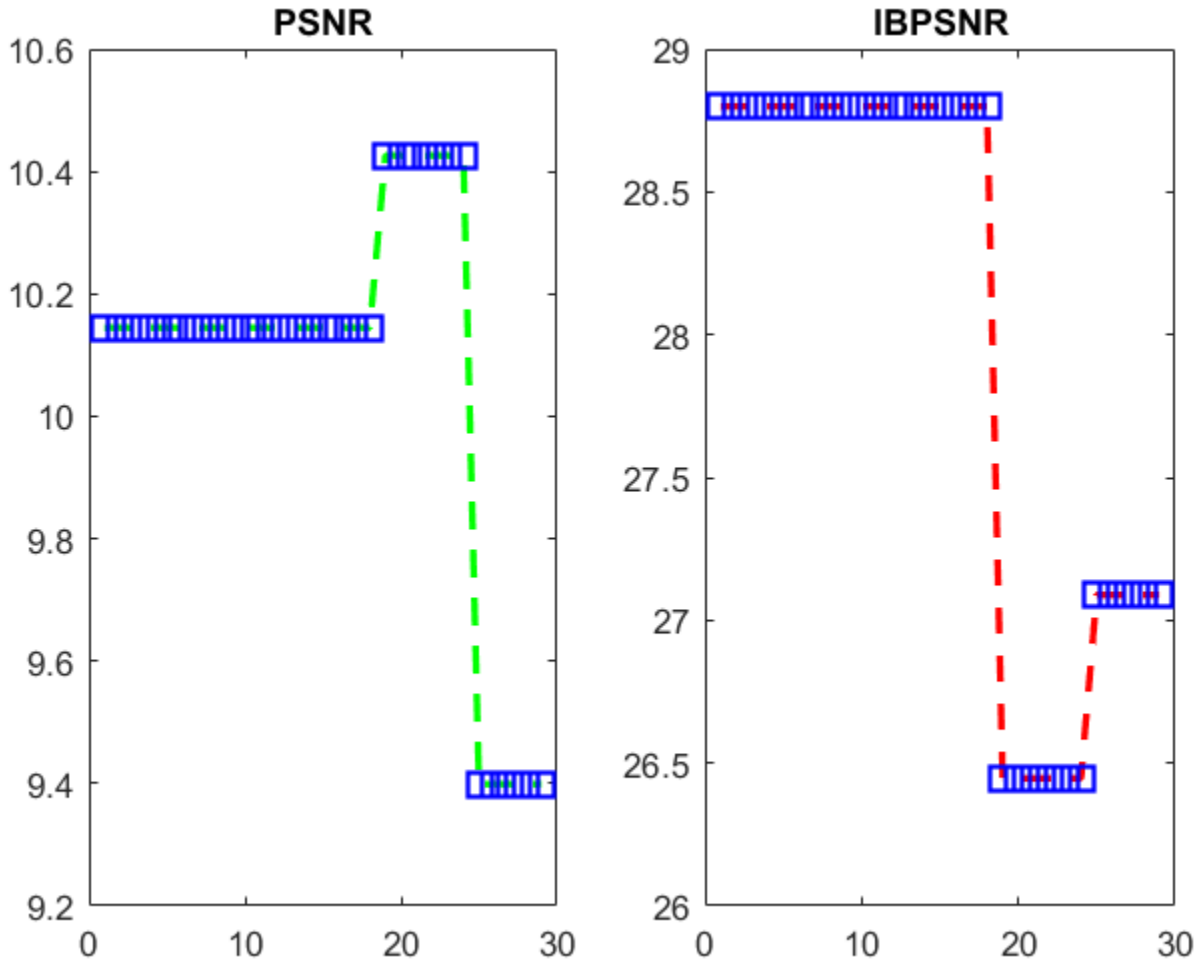

PSNR
15
14.5
14
13.5
13
12.5
0
10
20
30
IBPSNR
36
35
34
33
32
31
30
29
28
27
0
10
20
30

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR

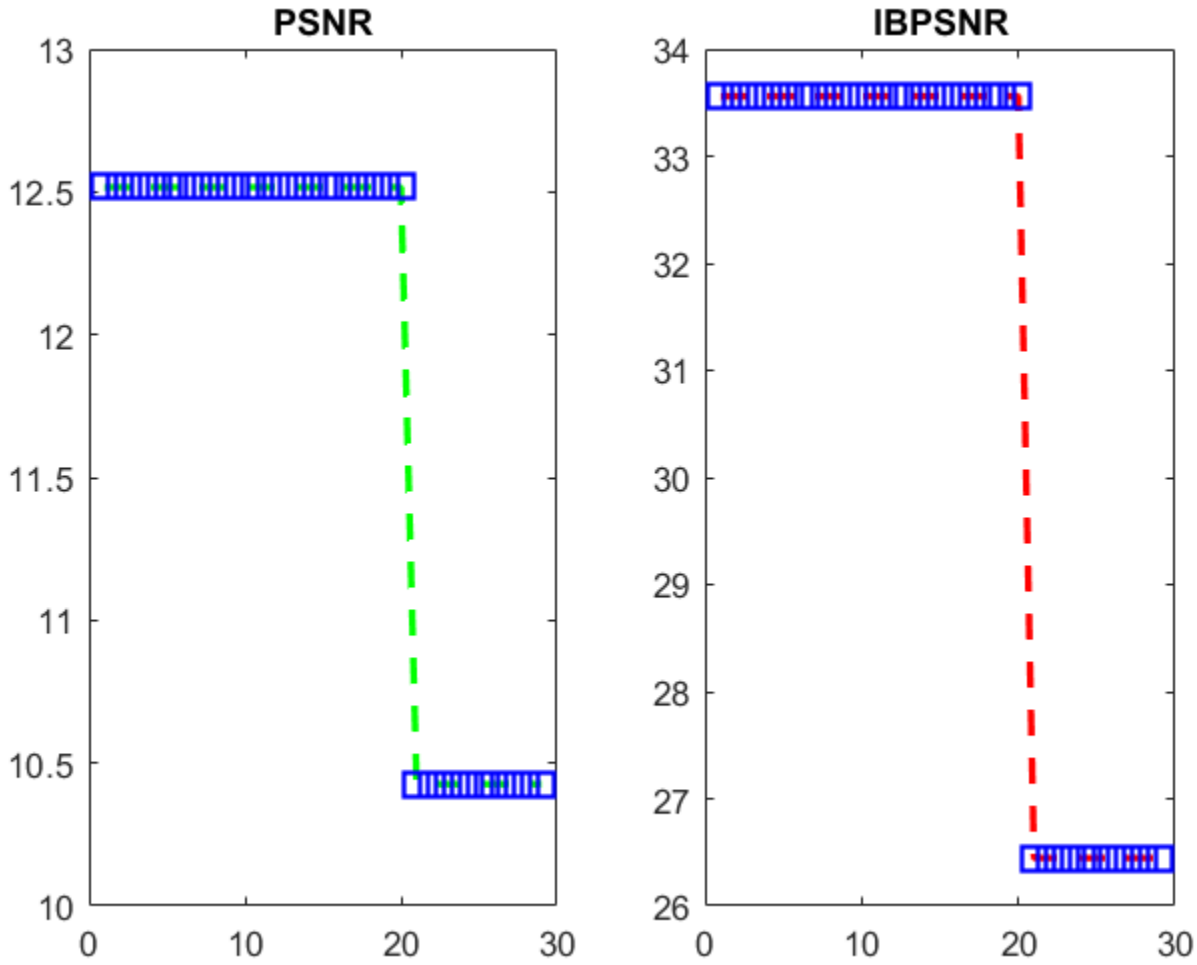
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
0
10
20
30
IBPSNR
29
28.5
28
27.5
27
26.5
26
0
10
20
30

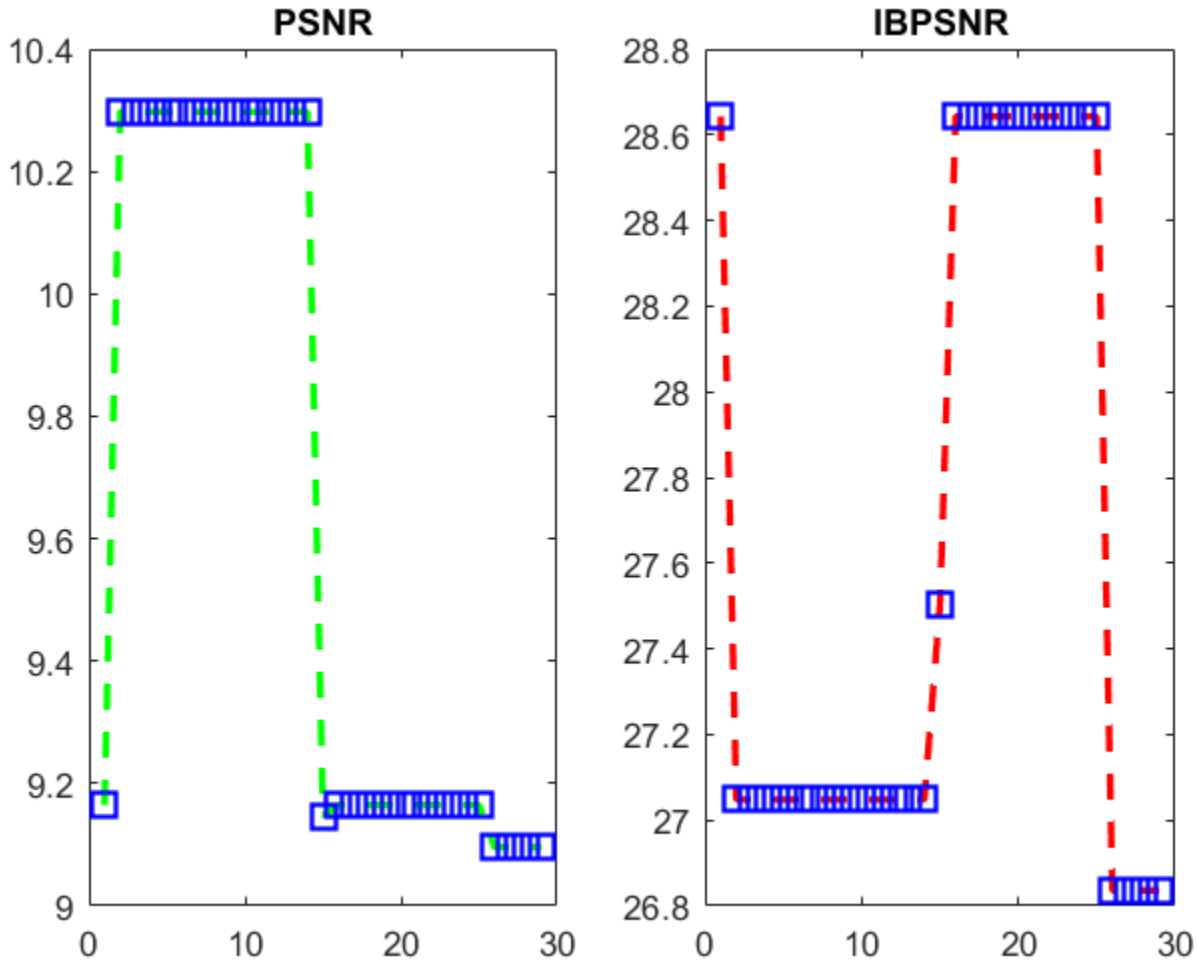
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
13
12.5
12
11.5
11
10.5
10
0
10
20
30
IBPSNR
34
33
32
31
30
29
28
27
26
0
10
20
30

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR

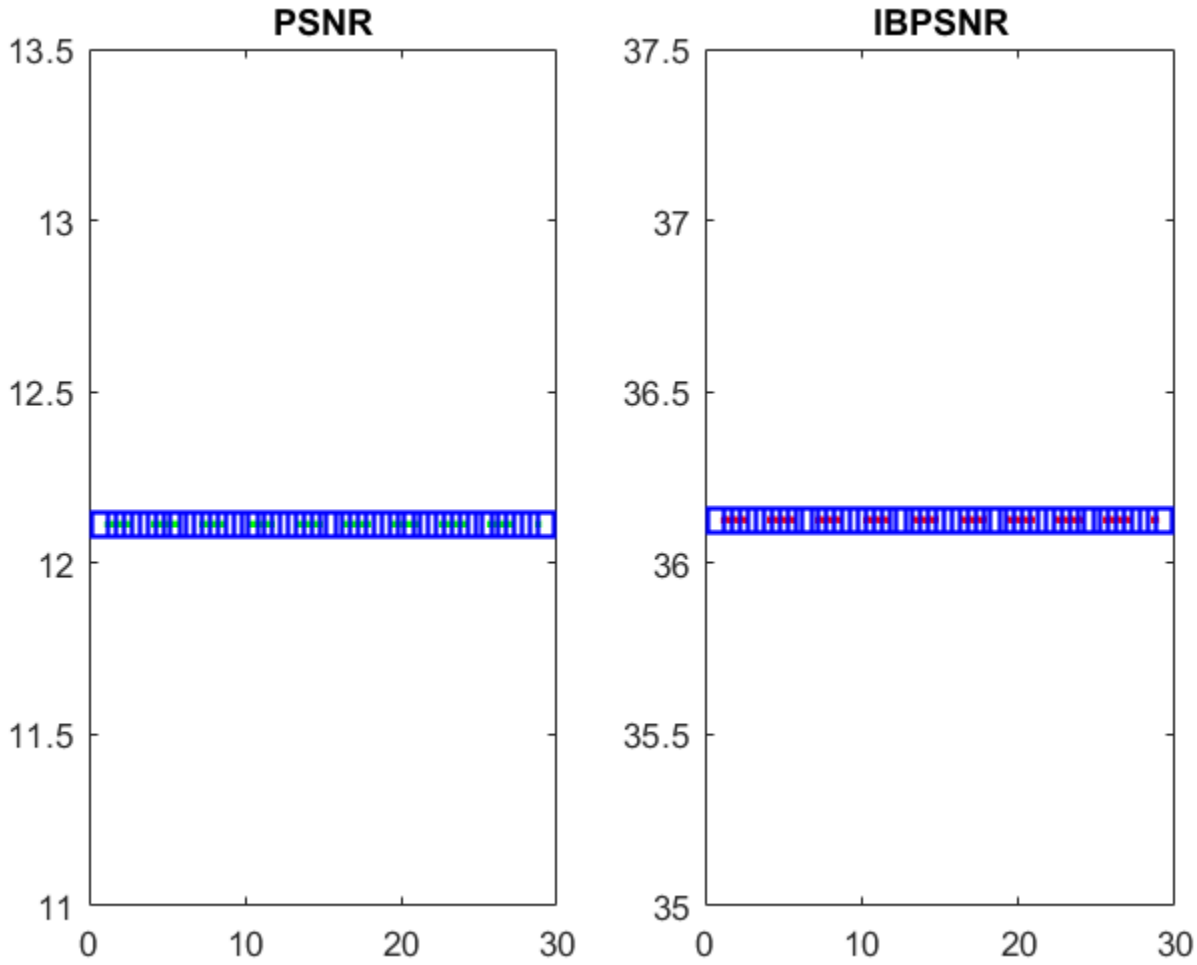

PSNR
10.4
10.2
10
9.8
9.6
9.4
9.2
9
0
10
20
30
IBPSNR
28.8
28.6
28.4
28.2
28
27.8
27.6
27.4
27.2
27
26.8
0
10
20
30

Orginal LR Orginal HR

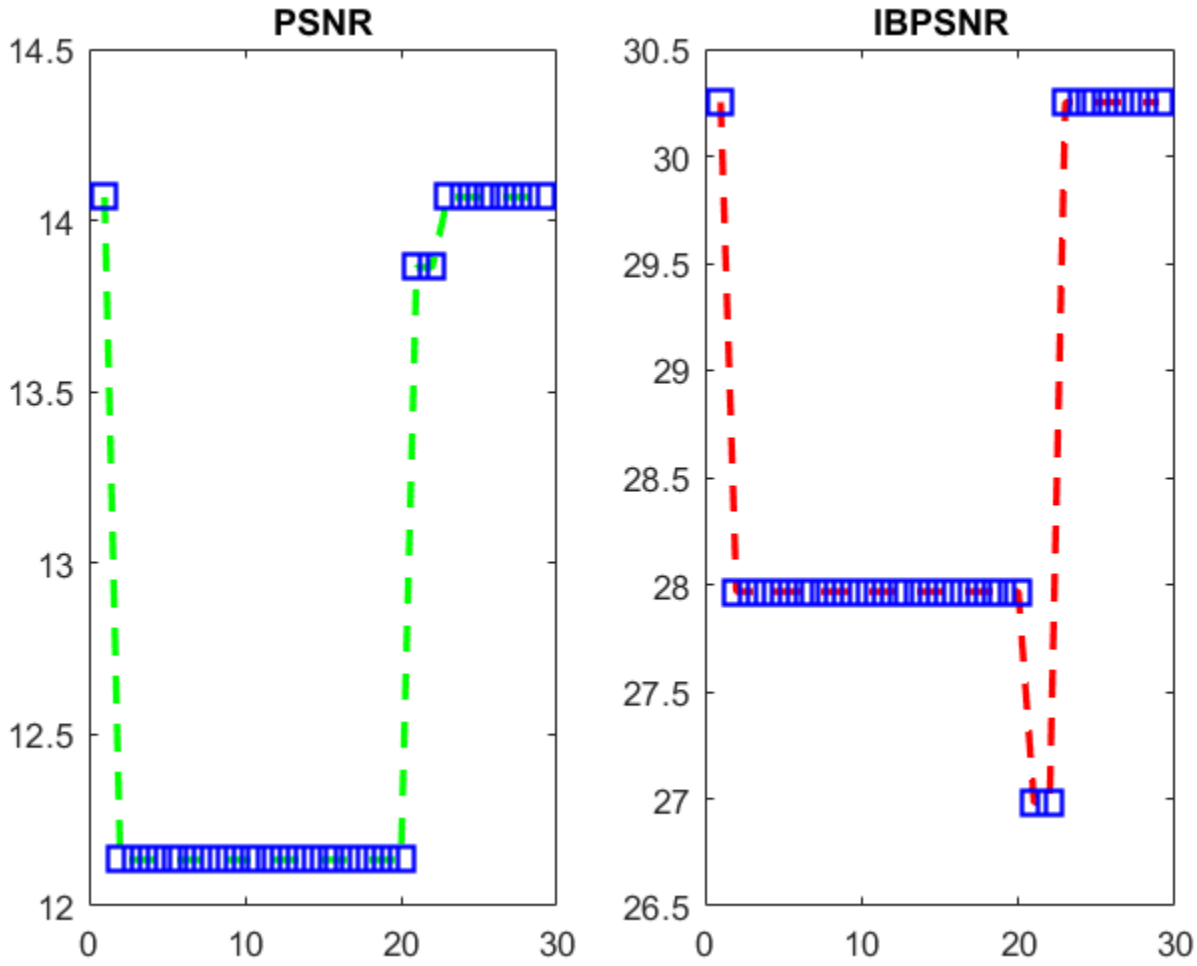
Find LR Find HR Find HR Find HR Find HR Find HR

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR

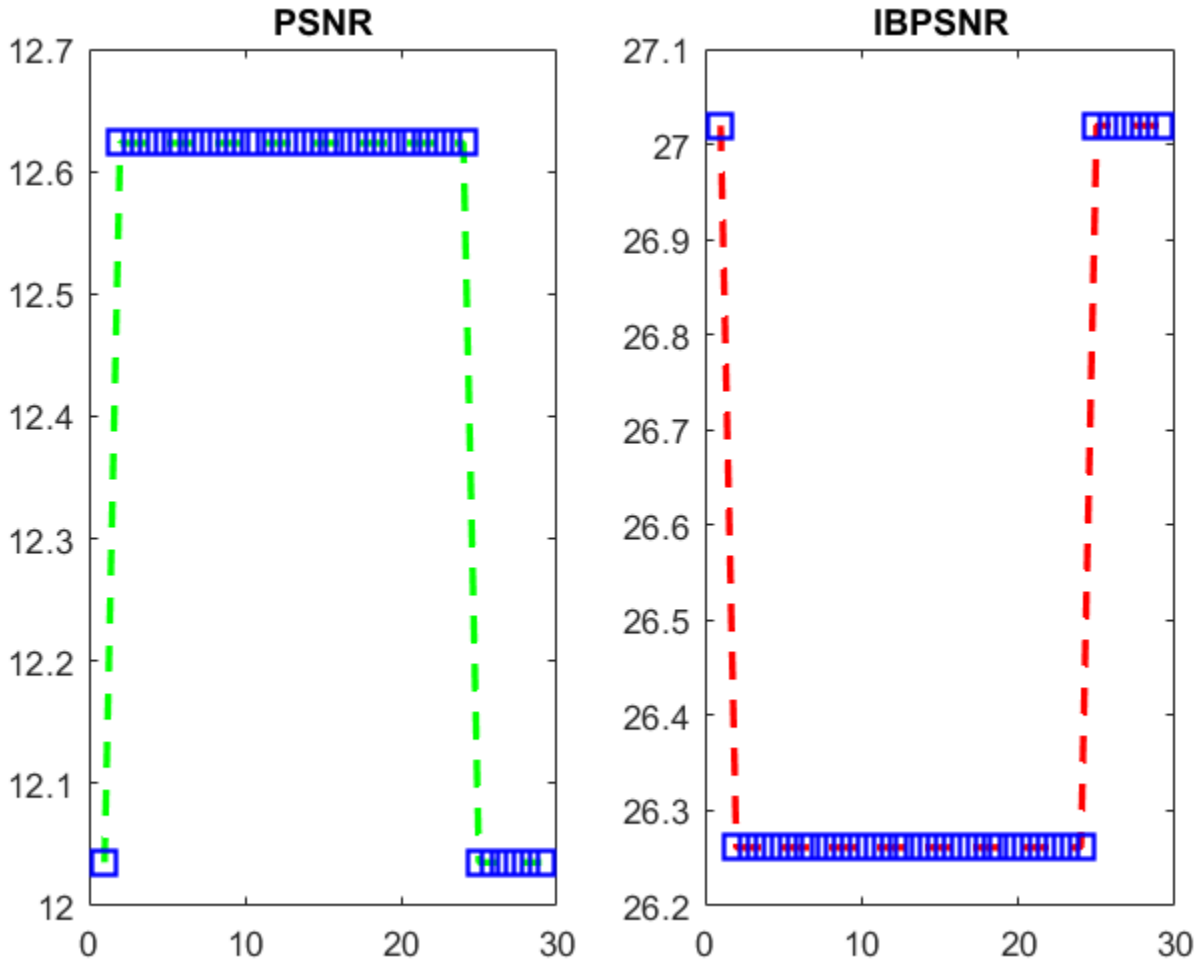

PSNR
13.5
13
12.5
12
11.5
11
0
10
20
30
IBPSNR
37.5
37
36.5
36
35.5
35
0
10
20
30

Orginal LR
Orginal HR
Find LR
Find HR
Find HR
Find HR
Find HR
Find HR


PSNR
14.5
14
13.5
13
12.5
12
0
10
20
30
IBPSNR
30.5
30
29.5
29
28.5
28
27.5
27
26.5
0
10
20
30

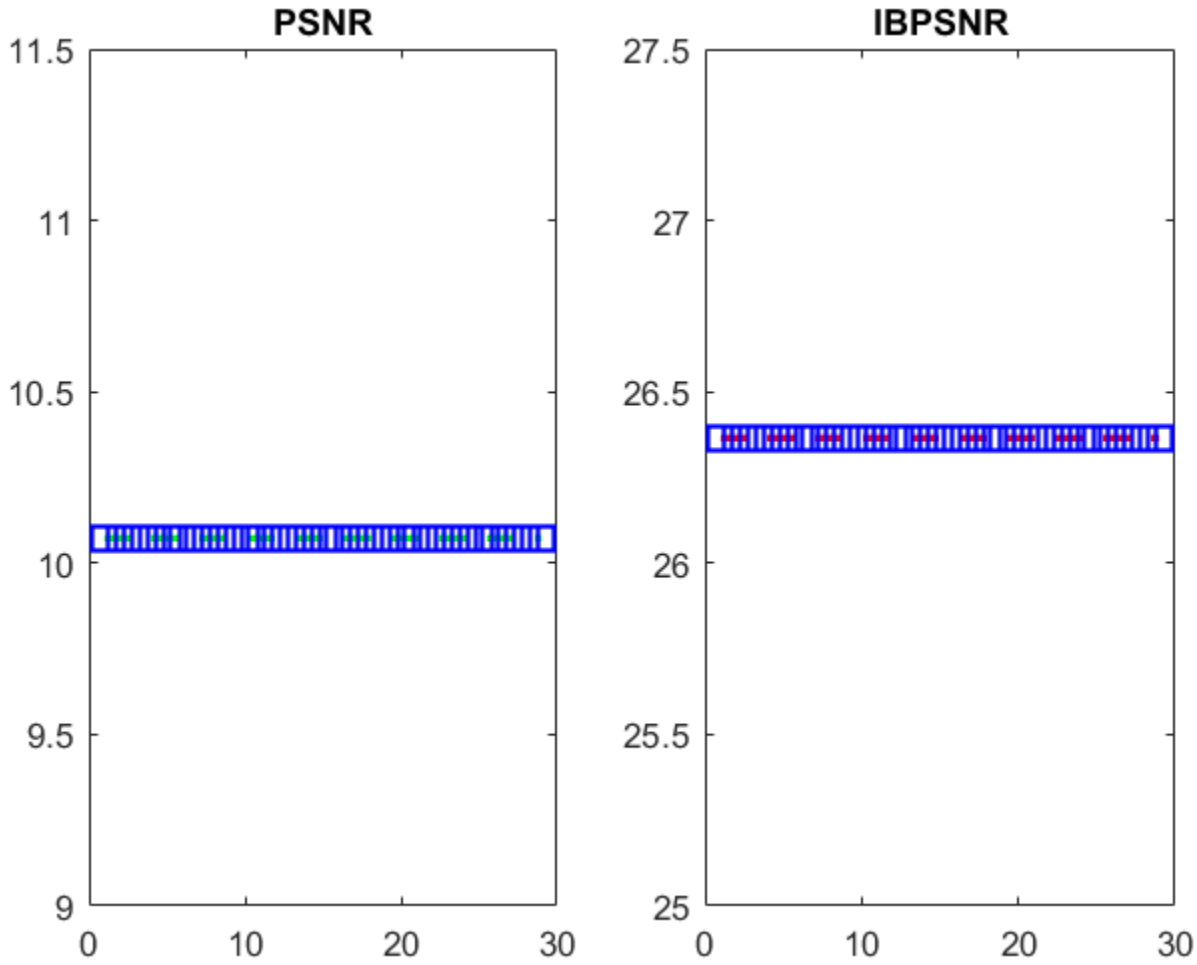
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
12.7
12.6
12.5
12.4
12.3
12.2
12.1
12
0
10
20
30
IBPSNR
27.1
27
26.9
26.8
26.7
26.6
26.5
26.4
26.3
26.2
0
10
20
30

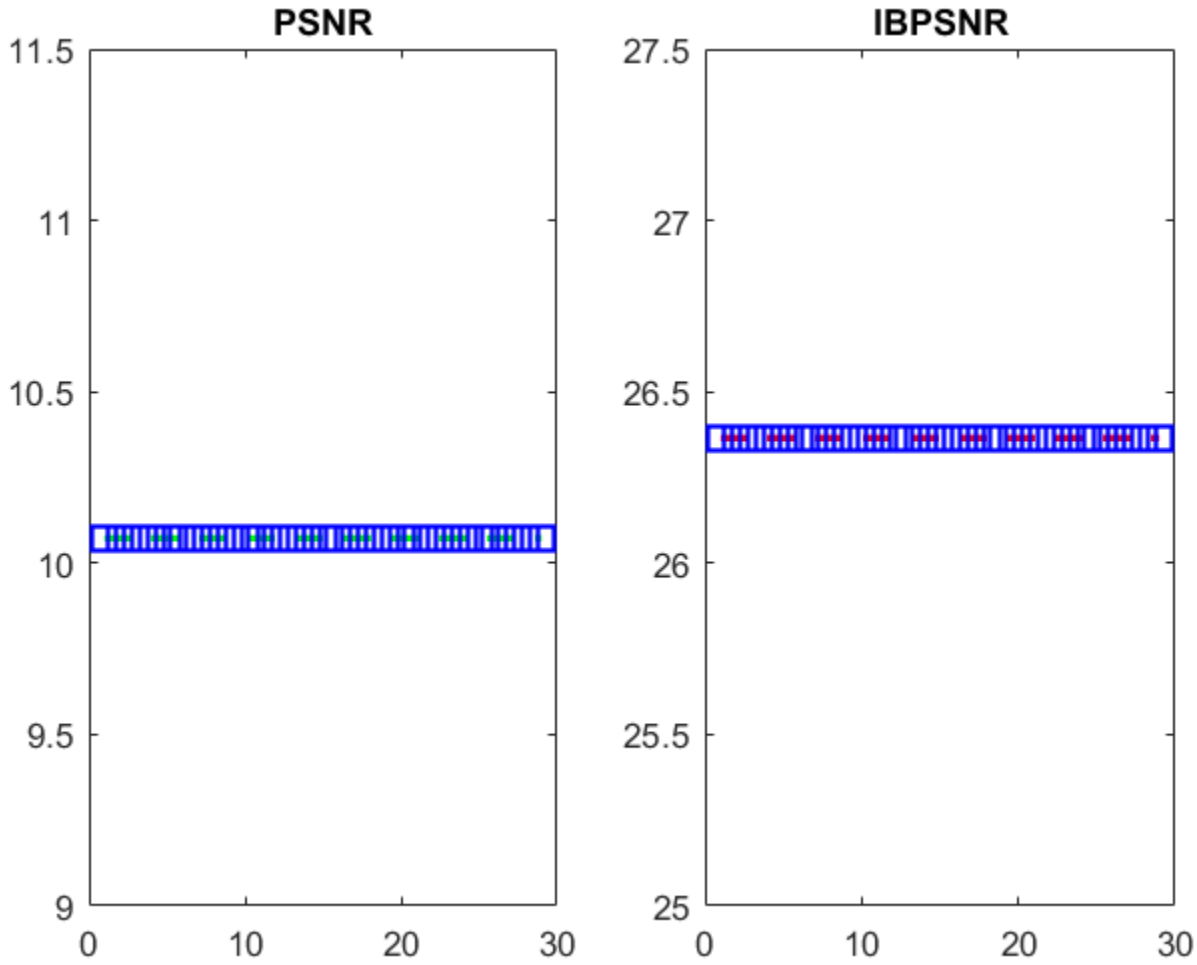
Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
11.5
11
10.5
10
9.5
9
0
10
20
30
IBPSNR
27.5
27
26.5
26
25.5
25
0
10
20
30

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR


PSNR
11.5
11
10.5
10
9.5
9
0
10
20
30
IBPSNR
27.5
27
26.5
26
25.5
25
0
10
20
30

Orginal LR Orginal HR

Find LR Find HR Find HR Find HR Find HR Find HR