

Porovnajte hodnoty MSE, mSSIM

- Šum=imnoise(I,type);
- Intenzita+20
- Blur: fspecial; imfilter;
- Contrast stretch: histeq;
- Čierny štvorec v obraze

$$\text{SSIM}(\mathbf{x}, \mathbf{y}) = \frac{(2\mu_x \mu_y + C_1)(2\sigma_{xy} + C_2)}{(\mu_x^2 + \mu_y^2 + C_1)(\sigma_x^2 + \sigma_y^2 + C_2)}$$

SSIM

```
window = fspecial('gaussian', 11, 1.5);  
window = window/sum(sum(window));  
mux = filter2(window, imgx, 'valid');
```

...

$C_1 = (0.01 * L)^2$
 $C_2 = (0.03 * L)^2$
 $L = 255$

Jednoduchá detekcia tváří

Farba pokožky

$$0.79 G - 67 < B < 0.78 G + 42$$

$$102 < Cb < 128$$

Farba nepokožky

$$0.836 G - 14 < B < 0.836 G + 44$$

$$19 < H < 240$$

Regionprops:

b=MajorAxisLength

a=MinorAxisLength

$$0.6 < a/b < 0.75$$

