# <u>Home</u> > I miei corsi > <u>Bio Prof Milani</u> > MAY 2, 2022 - MAY 8, 2022 > <u>Self-evaluation quiz: Iris recognition</u>

| Iniziato           | mercoledì, 4 maggio 2022, 12:25                   |
|--------------------|---|
| Stato              | Completato  |
| Terminato          | mercoledì, 4 maggio 2022, 12:35                   |
| Tempo<br>impiegato | 10 min. 21 secondi                                |
| Punteggio          | 1,44/7,00   |
| Valutazione        | <b>2,06</b> su un massimo di 10,00 ( <b>21</b> %) |
|                    |   |

# Domanda 1

Risposta errata

Punteggio ottenuto -0,11 su 1,00 Concerning an iris code, select the **wrong** statement among the following.

Scegli un'alternativa:

- Commercial iris codes are made of 2048 sample points.
- lt is generated from a set of Gabor filters that output complex values.
- Ocommercial iris codes are made of 2048 bits + 2048 bit masks.

2048 BIT 1024 SAMPLE

Risposta errata.

La risposta corretta è: Commercial iris codes are made of 2048 sample points.

# Domanda **2**

Risposta errata

Punteggio ottenuto -0,11 su 1,00 Concerning an iris imaging for biometric identification, select the **correct** statement among the following.

# Scegli un'alternativa:

- $\, \odot \,$  Iris IR imaging is mostly performed considering radiations in the band [380,780] nm.
- No, NIR goes from 770-1400 nm.

- Iris size is controlled by sphincter (radial) and dilator (circular) muscles.
- Ocolor information is the most important information for iris recognition.
- Iris code starts creating during pre-natal phase and is stable after a few months from birth.

Codo 1

Risposta errata.

La risposta corretta è: Iris code starts creating during pre-natal phase and is stable after a few months from birth.

t Hrd CHG

# Domanda **3**

Risposta errata

Punteggio ottenuto -0,11 su 1,00 Considering the dilation ratio of a pupil, select which of the following statements is wrong

Scegli un'alternativa:

- It depends on health and decision making.
- Larger dilation increases the mean of authentic distribution.

The higher, the smaller is the pupil.

It depends on the emotional state and the illumination.

2 2 a Diatatione Direct da guardi

Risposta errata.

La risposta corretta è: The higher, the smaller is the pupil.



# Domanda **4**

Risposta corretta

Punteggio ottenuto 1,00 su 1,00

Considering the iris code in a biometric authentication system, select the **wrong** statement among the following ones.

Scegli un'alternativa:

- 1024 samples are generated for each sampled radius on the rubber sheet model.
- Pixel belonging to eyelids or eyelashes are not skipped thanks to a mask.
- Standard iris codes are made of 2048 bits.
- Iris code is computed from the phase of Gabor filter response.

Sallan Salse

Risposta corretta.

Le risposte corrette sono: Pixel belonging to eyelids or eyelashes are not skipped thanks to a mask., 1024 samples are generated for each sampled radius on the rubber sheet model.

# Domanda **5**

Risposta errata

Punteggio ottenuto -0,11 su 1,00

Traditional iris segmentation uses the integro-difference operator

$$\max_{x_0,y_0,r} \left| G_\sigma(r) * rac{\partial}{\partial r} \oint_{x_0,y_0,r} rac{I(x,y)}{2\pi r} ds 
ight|.$$

Select the **correct** statement among the following ones.

Scegli un'alternativa:

- It finds the maximum in the blurred partial derivative with respect to the  $(x_0,y_0)$  coordinates.
- It can be used to find the parameters of furrows.

 $G_{\sigma}(r)$  is a Gaussian filter with radius r and scale  $\sigma$ .

Your answer is incorrect.

La risposta corretta è:  $G_{\sigma}(r)$  is a Gaussian filter with radius r and scale  $\sigma$ .

# Domanda **6**

Risposta corretta

Punteggio ottenuto 1,00 su 1,00 Among the following facial feature set, select the one that contains **only** local features.

Scegli un'alternativa:

- LBP, PCA
- Elastic Bunch Graph Matching, PCA.
- Dlib facial landmark, LDA
- Dlib facial landmark, Elastic Bunch Graph Matching

Risposta corretta.

La risposta corretta è: Dlib facial landmark, Elastic Bunch Graph Matching

#### Domanda 7

Risposta errata

Punteggio ottenuto -0,11 su 1,00 Concerning an iris code, select the wrong statement among the following.

Scegli un'alternativa:

- Commercial iris codes are made of 2048 bits + 2048 bit masks.
- It is generated from a set of Gabor filters that output complex values.

Commercial iris codes are made of 2048 sample points.

Risposta errata.

La risposta corretta è: Commercial iris codes are made of 2048 sample points.

1) 1024 Sante

# DOCUMENTAZIONE

Moodle

Kaltura

