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Iniziato	mercoledì, 4 maggio 2022, 12:05
Stato	Completato
Terminato	mercoledì, 4 maggio 2022, 12:19
Tempo	14 min. 52 secondi
impiegato	
Punteggio	3,67/7,00
Valutazione	5.24 su un massimo di 10.00 (52 %)

Risposta corretta

Punteggio ottenuto 1,00 su 1,00 Select the wrong answer about Viola and Jones algorithm:

OK

Scegli un'alternativa:

- VJ algorithm is impossible to use in real time applications
- AdaBoost is used to select the best set of rectangular features.
- An integral image is a representation that stores the sum of the intensity values above and to the left of the image point.
- The use of integral image, rectangular filters, and cascading are some of the peculiarities of this algorithm.

Risposta corretta.

La risposta corretta è: VJ algorithm is impossible to use in real time applications

Domanda 2

Risposta corretta

Punteggio ottenuto 1,00 su 1,00 Select the **correct** answer about Viola and Jones algorithm:

Scegli un'alternativa:

- VJ algorithm can not operate in real time.
- ullet Filter coefficient values can assume any value in the range [0,1].
- AdaBoost is used to select the best set of rectangular features.
- It can not be trained to identify eyes or mouth (only the overall face).

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Risposta corretta.

La risposta corretta è: AdaBoost is used to select the best set of rectangular features.

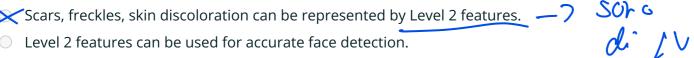
Risposta errata

Punteggio ottenuto -0,11 su 1,00

Considering facial features and their different levels, select the **wrong** statement among the following.

Scegli un'alternativa:

- The resolution of the face image determines whether features can be computed and is ruled by IPD.
- Level 1 features include global skin color.





Your answer is incorrect.

La risposta corretta è: Scars, freckles, skin discoloration can be represented by Level 2 features.

Domanda 4

Risposta corretta

Punteggio ottenuto 1,00 su 1,00

Considering the equation

$$arg\max_{W}rac{W^{T}S_{0}W}{W^{T}S_{1}W}$$

select among the following sentences the correct one.

Scegli un'alternativa:

- The equation defines the Linear Discriminant analysis decomposition and S_1 interclass scatter matrix.
- The equation defines the Principant Component Analysis decomposition and S_1 is the between class scatter matrix.
- The equation defines the Fisherface decomposition and S_1 is the interclass scatter matrix.
- \bigcirc The equation defines the Eigenfaces decomposition and S_1 between class scatter matrix.

Risposta corretta.

La risposta corretta è: The equation defines the Linear Discriminant analysis decomposition and S_1 interclass scatter matrix.

Risposta errata

Punteggio ottenuto -0,11 su 1,00 Among the following facial feature set, select the one that contains only local features.

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Scegli un'alternativa:

- PCA, Elastic Bunch Graph Matching
- Dlib facial landmark, LDA.
- Tensorface, Elastic Bunch Graph Matching.
- Olib facial landmark, Elastic Bunch Graph matching.

Risposta errata.

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

Risposta corretta

Punteggio ottenuto 1,00 su 1,00

Classe,

In Viola-Jones face detector, consider the following equation

$$h_j(w) = egin{cases} 1 & ext{if } p_j f_j(w) \leq p_j heta_j & heta_j &$$

f) = feature

Select the **wrong** statement among the following.

Scegli un'alternativa:

- $ightharpoonup p_j$ can assume any real value.
- θ_j is the parameter to be optimized.
- It defines a weak classifier.
- $f_j(w)$ is the response of the filter.

Risposta corretta.

La risposta corretta è: p_i can assume any real value.

Risposta errata

Punteggio ottenuto -0,11 su 1,00

Considering the split test equation

$$h(I_{\pi_i}, \hat{\mathbf{S}}_i^{(t)}, heta) = egin{cases} 1 & ext{if } |I_{\pi_i}(u') - I_{\pi_i}(v')| < au \ 0 & ext{otherwise,} \end{cases}$$
 select the **wrong** statement.

Scegli un'alternativa:

u' is only a transated version of v.

- u' and v' are different for each node.
- θ includes the parameter τ .
- When the output is 1, u' and v' have converged.

cy Imax)

Risposta errata.

La risposta corretta è: u' is only a transated version of v.

■ Quiz-Fingerprint

Vai a...

Lecture 15 - Fairness / Introduction to iris recognition ▶

DOCUMENTAZIONE

Moodle

Kaltura