H 20

### **QUESTION AND ANSWER SHEET**

#### **Examination, 3 February 2009**

#### 1. Methods

(10 points)

- 1) The purpose of a methods section is:
  - a. To explain your results
  - b. To introduce the background to your study
  - c. To show how you conducted your study
  - d. To explain what your results mean.
- 2) Which of the following would <u>not</u> usually be discussed in a methods section?
  - a. Mathematical models
  - b. Experimental equipment
  - c. Research findings
  - d. Special criteria
- 3) Would you expect the passive voice (受身) to be more or less common in methods sections than in other sections?
  - a. More common
  - b. A little less common
  - c. Much less common
  - d. About the same
- 4) How would you describe the following sentence?

The "compression ratio" is (compressed size)/(original size)\*100 [%].

- a. Aim
- b. Assumption
- c. Definition
- d. Theory
- 5) How would you describe the following sentence?

The purpose of the application is to reduce the number of polygons by removing smaller features.

- a. Aim
- b. Assumption
- c. Definition
- d. Theory

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6)	How would you describe the following sentence?					
	Our design requires that the communication devices should be equipped with GPS					
	systems.					
	a. Aim					
	b. Assumption					
	c. Definition					
,	d. Theory					
7)	How would you describe the following sentence?					
	We begin by reviewing the principles of database design.					
	a. Aim					
	b. Assumption					
	c. Definition					
	d. Theory					
8)	Which word would you use to complete the following sentence?					
	The volume can be adjusted a small dial on the side of the device.					
	a. by					
	b. with					
	c. by means of					
	d. through					
9)	Which word would you use to complete the following sentence?					
	We recommend cleaning the screen a fine cloth.					
	a. by					
	b. with					
	c. by means of					
	d. through					
10)	Which word would you use to complete the following sentence?					
	The two locations are connected satellite.					
	a. by					
	b. with					
	c. by means of					
	d. through					

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In questions 2-5, please refer to the provided paper, "Face Recognition with One Sample Image per Class".

2.	Ordering sentences in a conclusion section (10 points					
	The following sentences and clauses of the conclusion have been mixed up in the wrong					
	order. Number them in the correct order.					
	since we only rotate the eigen space in the direction that best represents the					
	within-class covariance.  A future task will be to search the eigen space and find the best eigen features suitable					
	for face recognition.					
	There are only as few as two variable parameters during the optimization compared to					
	other methods for high-dimensionality problems.					
	A shortcoming of the algorithm is that we cannot guarantee that the weights achieved					
	are the best for recognition,					
	but also perform well for the combination of both changes with only one sample					
	image per class.					
	After affine transformation, features are assigned with different weights for					
	recognition which in fact enlarge the between-class covariance while minimizing					
	within-class covariance.					
	Experiments show that APCA is more robust to change in illumination and expression					
	and has better generalization capacity compared to the FLD method.					
	We have described an easy-to-calculate and efficient face recognition algorithm by					
	warping the face subspace constructed from PCA.					
	The affine procedure contains three steps: rotating the eigen space, whitening					
	transformation, and then filtering the eigenfaces.					
	This method can not only deal with variations in illumination and expression					
	separately					
3.	Connectors (10 points)					
	Write suitable connectors (e.g., therefore, however, in addition, on the other hand,					
	etc.) for the numbered spaces in the introduction.					
	2					
	3					
	<b>4</b>					
	5					

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1.	Identifying "moves" in an introduction section				(10 points)			
	Draw lines to divide the introduction into "moves" (i.e., parts), and write a label for each							
	move.	* .						
		<i>t</i> ,		: :	• .			
5.	Writing an abstract for a complet	te paper			(50 points)			
	Write an abstract for the paper in the space below in 90-110 words. You may also write on							
	the back of the paper if necessary.		·	•				