

Knowledge-based Media Systems 2nd Exam

Date: 16.12.2009

Location: REC-P 017

Examiner: Frank Nack

Duration: 90 minutes (13:00 – 14:30)

Allowed help: one self-written A4, single sided sheet of information

Student name:

Student number:

Questions

1. Describe with two examples the difference between 'hearing' and 'listening' (2P)
2. Define the concept 'prosody' (3P)
3. Define the concepts of arousal and valence and explain their relevance for the representation of emotion in the context of audio (4P)
4. Describe the emotion recognition system in the context of audio (6P).
5. Name 4 methods for biometric measurement. Provide for each method one example how it can be used in a digital 'sensor' system (4P).
6. Some biometric data can be interpreted more reliably than others. Name one reliable and one more critical sensor and describe their strength and weakness (3P).
7. Describe 2 human and 2 environmental factors relevant for the representation of context. Give one use example for each of the four factors you have named. (4P)
8. Describe 3 representational models a contextual system needs to have. Provide an example for each of these structures (3P).

29 P

9. Discuss the following statement: The correlation between GSR pattern and emotion needs to be defined (10P).
10. Discuss the following statement: For classification of audio, in principle any statistical classifier can be used (10P).

20 P