

## Exercise 1 – Mensch-Maschine-Interaktion 1

### Research

(Individual homework, 1 week)

Write a short report (2 – 4 pages) about one of the following topics:

1. Adaptive Interfaces
2. Augmented Reality
3. Child Computer Interaction
4. Context Awareness
5. Cross-Cultural User Interface Design
6. Eye tracker
7. Human-Robot Interaction
8. Interaction in the Automobile
9. Interactive displays
10. Mobile User Interface Design
11. Multi-Display Environments
12. Multimodal Interaction
13. Shareable Displays
14. Speech and Vocal Interaction
15. Tactile and Haptic User Interfaces
16. Tangible User Interfaces
17. Text entry
18. Ubiquitous Computing
19. Usability
20. Virtual Reality
21. Projector Phones
22. Interaction with Tabletop Displays  
(e.g. MS Surface)
23. Computing for the Elderly
24. Gesture Input
25. Domestic Computing
26. Robot Control
27. Location Based Services
28. Context-aware Computing
29. Ambient Interfaces
30. Sensor Networks
31. Privacy for Mobile Computing

The content should include:

- A short description of the topic
- A history review:
  - When was the topic first mentioned in scientific research?
  - How did scientific interest change over time?
  - How did popular interest change over time?
- The most recent developments / research approaches
- The two or three most important publications and a summary of their content

The report should contain aggregated data, a short analysis, and a description of the methods you used to collect the data. Use figures to illustrate your findings. Additionally, document all the sources you used (including pictures).

### Submission:

- Send your solution to your tutor by email. Use an attachment named exercise1-<cip-Kennung>.pdf. Use the email subject “mmi1 exercise 1 <cip-Kennung>”.
- The attachment must contain the following:
  - The research report (PDF format)
- **Deadline:** 06.05.2009, 12:00 (noon).