SOE: Usability and Interaction Design

Four proposals:
• Combining XP and usability evaluation
• Efficiency of usability evaluation in practice
• Remote usability testing
• Interaction with complex data on mobile devices

With every project proposal, there is a reference or two to relevant literature. If you cannot find it, just email me and ask for it: jans@cs.aau.dk
Agile Methods and Usability Evaluation

**Motivation:**
- Agile methods are an interesting alternative to conventional methods
- They require continuous feedback from the future users
- They provide very few techniques to collect this feedback

**Purpose:**
- Experimental study of a combination of an agile method and existing or new techniques for usability evaluation
- See the SOE course literature on agile methods
Efficiency of Usability Evaluation in Practice

Motivation:
• Usability experts working in commercial practice do not use the classical methods for usability evaluation
• The reason is that it is way too time-consuming
• They claim that they can produce similar results with much fewer resources

Purpose:
• Develop and/or experiment with more effective techniques for usability evaluation

Mikael B. Skov and Jan Stage (2009) Comparison of Conventional Video-Based Analysis and Real-Time Analysis in Usability Evaluation
Remote Usability Testing

Motivation:
- The user and evaluator are separated in space and time
- Synchronous: Surprisingly efficient
- Asynchronous: Much less workload on evaluators
- Highly relevant also for OSS and global development

Purpose:
- Find existing or new techniques for remote usability testing that are most efficient

Interaction with Complex Data on Mobile Devices

Motivation:
- Mobile devices are very useful for people who are on the move while they are working
- An increasing number of applications involve complex data
- It is very difficult to interact with complex data on a small screen

Purpose:
- Develop and test interaction forms for interacting with complex data on a small screen


Anti-bacterial spectrum

- Penicillin
- Meticillin
- Ampicillin
- Gentamicin
- Imitopen
- Aztreonam
- Ceftazidim
- Ceftriaxom
- Cefotaxim
- Cefuroxim
- Piperacillin
- Metronidazol
- Vancomycin
- Erytromycin
- Ciproflaxcin
- Gentamicin
- Imipenem/Meropenem
- Pseudomonas
- Klebsiella
- E. coli
- Haem.
- Influen.
- Diplokokker
- Enterokokker
- Pneumokokker
- Streptokokker
- Stafylkokker

Can not be used, Can be used, Resistance of design needed, some sensitive isolates