Master thesis ideas
– Health informatics group
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Health informatics

• The area
  – The area of knowledge that deals with information processing and communication in health care, health education and health research
  – Includes methods for defining, collecting, organizing, storing, analyzing and presenting medical, welfare, administrative and economic data in health care

• The research group
  – Always interested in master thesis projects in the area
  – Have several connections to healthcare organizations, companies, authorities and standardization organizations
Decision support system / Artificial intelligence demonstrator

- Demonstrate how future health record integrated decision support systems can work for clinicians in a pedagogic way
- Investigate and select principles and graphical demonstration method(s)
- Implement the principles in a demonstrator (software)
  - Change or load decision support rules and health record content
  - Graphically show how rules and content interact
- Potential methods to use are bayesian networks, fuzzy logic, concept and argument maps, ontologies and clinical information models
Personal health account interaction for severely ill persons

- Personal health accounts (PHA) collect health information from the account owner and potentially from the healthcare system
  - The information is owned by the account holder
- Investigate methods for severely ill persons to interact with PHA by
  - Register important information into the PHA
  - From the PHA integrate and visualize a health information overview
- Potential methods to use are speech synthesis and smart TVs
- Base the information management on PHA information standards
- Implement the methods in a demonstrator (software)