User experience and critical success factor of implementing the intelligent bed in Denmark and China
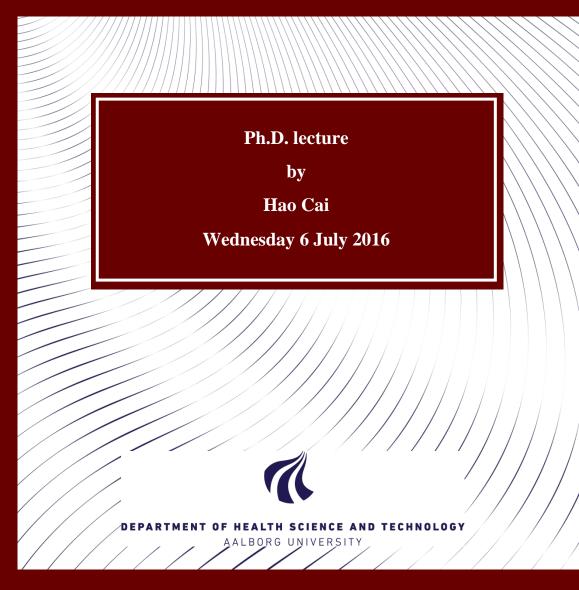
by

Hao Cai

In 2007, the concept of welfare technology was introduced as a new discourse in Denmark by the Danish Board of Technology. Welfare technology is defined as technology that can help and assist users in their daily lives. Welfare technology is closely linked to Ambient Assisted Living (AAL) whereas AAL focuses on "addressing the needs of the aging population". Welfare technology addresses not only the elderly but also other users of public services such as chronical ill patients, handicapped, etc. The overall aim of this Phd study has two fold: Firstly, to evaluate the healthcare professionals' user experience of implementing the intelligent bed in Denmark and China. Secondly, to identify critical success factors on translating welfare technology from Danish to a Chinese context. The concept of the intelligent bed is developed by a Danish company. The intelligent bed consists of a hospital bed combined with sensor technology to improve the comfort and use of the bed for users and healthcare professionals. The intelligent bed consist of functions like: light under the bed, out of bed sensor, moisture sensor, alarms for bed-rails and brakes, etc. Case studies were conducted in a nursing home in Soenderborg Municipality, Denmark and on a rehabilitation ward at a hospital in China.

In conclusion, critical success factors mentioned in the thesis are important for transformation of the intelligent bed from Denmark to China. The identification of the critical success factors is a valuable knowledge for future project management, Danish companies and municipalities in Denmark when performing transformation of welfare technology from Denmark to China.

Ph.D. lecture

by

Hao Cai

Wednesday 6 July 2016

DEPARTMENT OF HEALTH SCIENCE AND TECHNOLOGY

AALBORG UNIVERSITY

This thesis is based on Hao Cai's research work at:

SMI
Department of Health Science and Technology
Aalborg University
Denmark

To fulfill the requirements for the Ph.D. degree, Hao Cai has submitted the thesis: User experience and critical success factor of implementing the intelligent bed in Denmark and China, to the Faculty Council of Medicine at Aalborg University.

The Faculty Council has appointed the following adjudication committee to evaluate the thesis and the associated lecture:

Professor Marie-Pierre Gagnon
Laval University
Canada

Professor Aksel Hagen Tjora
Norwegian University of Science and Technology
Norway

Chairman:
Associate Professor Ulrike Pielmeier
Aalborg University
Denmark

Moderator:
Associate Professor Birthe Dinesen
SMI, Aalborg University
Denmark

The Ph.D. lecture is public and will take place on:

Wednesday 6 July 2016 at 13:00
Aalborg University – Room D2-106
Fredrik Bajers Vej 7 D2
9220 Aalborg East

Program for Ph.D. lecture on

Wednesday 6 July 2016

by

Hao Cai

User experience and critical success factor of implementing the intelligent bed in Denmark and China

Chairman: Associate Professor Ulrike Pielmeier
Moderator: Associate Professor Birthe Dinesen

13.00   Opening by the Moderator

13.05   PhD lecture by Hao Cai

13.50   Break

14.00   Questions and comments from the Committee
Questions and comments from the audience at the Moderator's discretion

16.00   (No later than)
Conclusion of the session by the Moderator

After the session a reception will be arranged