



C O N F E R E N C E

Small devices – big potentials.

Automating assessment & collection of dietary data with ICT

Aalborg University Frederikskaj 10A, Seminar room 3.160
28. August 9.30-15.00, Copenhagen, 2015

Measuring and monitoring dietary intake with easy-to-use portable intelligent devices, has gained interest and popularity worldwide. Increased accessibility of these mobile technologies, including smartphones, personal digital assistants and touch pads (ultra-portable computers), has made them more feasible for use by researchers and health care service providers for monitoring health behavior, compliance and effectiveness of nutritional care and support. Mobile technologies can be used in a co-creation mode where patients provide input and actively participate in the co-creation of service, care and best practice. This conference explores novel easy-to-use portable intelligent technologies and features leading scientists across the globe. It demonstrates new combinations of scales, smartphone technologies, near field communication and picture- and voice recognition to estimate food intake and to facilitate meal ordering process in hospitals and nursing home settings where measuring food intake is important. The conference provides insight into the use of novel technologies that can:

- Automate dietary intake assessment and thereby allow for automated estimation of nutritional intake as well as for food waste and environmental impact of food choice
- Co-create nutritional services in institutions for patients and the elderly in health care using portable intelligent devices

Practical information:

Aalborg University Copenhagen is located at the harbor in south-west Copenhagen, only a few kilometers from the center of the city and 15 minutes from the airport. Its easily accessible by car, as well as by bike or by public transportation. Read more on how to get to AAU [here](#)

Registration:

Registration fee is DKK 375,- including lunch, participants material and DKK 200 for students with a valid studycard. Registration takes place at [Billette](#). Free parking at campus with a valid permission (offered at front desk at no charge).



Programme

Introduction

- Opening address: Christine Antorini, past Danish Minister of education, MP and the president of the committee on research and education in the Danish parliament.
- Automated measuring of dietary intake - overview of technology based methods of dietary data collection. Tom Baranowski, Professor, Baylor College, Houston

Assessing food intake at hospital

- Monitoring intake among hospital patients – case of Huadong Hospital. Jianqin Sun. Professor Fudan University Hospital,
- Why is it important to monitor intake among hospital patients? Øivind Irtun, Professor Tromsø University Hospital

Novel easy2use devices

- Dietary Intake Monitoring System. ICT assisted dietary assessment at Aalborg Hospital. Kwabena Ofei. PhD, Aalborg University.
- ICT assistance and co-creation in the hospital meal ordering process. Insight from the Food'n Go project at Herlev Hospital. Jon Hemmingsen, Tachita.
- How do we make sense of big foodservice data in hospitals – Carsten Køster, CEO, Anova Data.

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Assessing food intake in other settings

- Wenyan Jia, Research professor, Pittsburgh University. The eButton for auto-collection of dietary data – how it functions
- The NANA data collection system and dietary assessment in the older population. Faustina Hwang, Assoc. Professor, University of Reading
- The Nu3Monitor hardware & software combo - double sourced data acquisition of dietary intake data. Michal Dobroczynski, CEO, Syscore.

Panel debate

- What is the future of automated dietary assessment? Moderated by Bent Egberg Mikkelsen, Professor, Aalborg University