

Open seminar:

Wireless biomedical sensors at the hospital

Time: Friday 8 February 2008

Location: Rikshospitalet, Oslo

Within the hospital or extended care environment, there is an overwhelming need for constant and invisible monitoring of vital body functions. Today's biomedical sensor solutions are effective for an individual measurement (for example ECG), but are not integrated into a complete body area network, where many simultaneous sensors are working at the same time on an individual patient. Also there is a need for increasing patient mobility and in many cases sensors for biomedical monitoring are not yet available for wireless applications. This creates the need for implementation of new biomedical personal wireless networks with a common architecture and the capacity to handle multiple sensors, monitoring different body signals, with different requirements.

A unique Nordic project has addressed these challenges and the project partners will present and demonstrate the results from the 1st phase of the project at this open seminar.

Agenda

- 09:00 Registration, coffee
- 09:30 Welcome and introduction (*Erik Fosse, IVS Rikshospitalet*)
BWSN-project; successful cooperation across the Nordic borderlines (*Eirik Næss-Ulseth, Novelda AS, project manager*)
- 09:45 Biomedical sensors for wireless health applications
 - Wireless Pressure Transducer sensor (André Larsen, Memscap AS)
 - DigiVent sensor (Johannes Kocher, Millicore AB)
 - CardioPatch ECG sensor (Fredrik Sebelius, Novosense AB)
 - Heart Monitoring Accelerator sensor (Jani Mäkipää, VTT)
- 10:45: Demonstration of wireless sensor network; live transmission from Operation Room (Karl Øyri / Erik Fosse, IVS Rikshospitalet)
- 11:55 Wireless healthcare – needs and opportunities (Paul Chaffey, Abelia)
- 12:15 Lunch & networking
- 12:50 BWSN – phase II (*Eirik Næss-Ulseth*)
- 13:00 Wireless healthcare – initiative (Dag Ausen, SINTEF)
- 13:15 Testbed wireless biomedical sensors (Ilanko Balasingham, IVS Rikshospitalet)
- 13:30 Mobility in Healthcare (Trine Strømsnes, Cisco Systems AS)
- 14:00 "Innovasjon i helsesektoren" (Maiken Engelstad, Helse- og omsorgsdepartementet)
- 14:15 Future healthcare – closing remarks (*Erik Fosse*)
- 14:30 End

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The Wireless Healthcare initiative is sponsored by:

Practical information

Address: Sognsvannsveien 20, Oslo

www.rikshospitalet.no

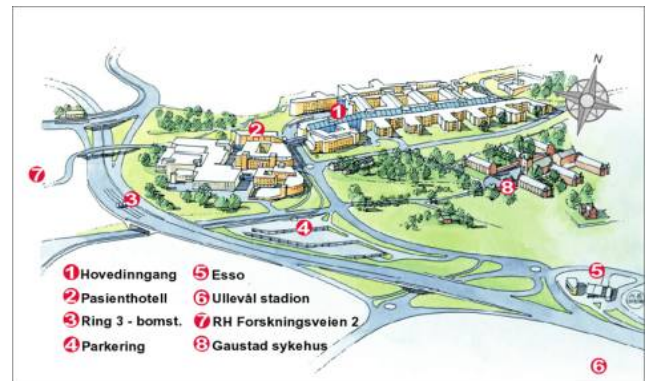
Blue auditorium (close to the main entrance)

Registration

Web: http://www.sintef.no/content/page11____18054.aspx

Deadline: Friday 1 February

The seminar is free of charge.



The Wireless healthcare initiative

Wireless healthcare is an initiative to promote and stimulate the development and use of new applications within ICT and medical technology in the healthcare sector. Wireless systems and biomedical sensors are focus areas.

The initiative connects actors in Norway and Sweden, and intends to be a network of doctors and researchers at hospitals and the primary healthcare service, small and large technology providers within ICT and medical technology, research teams at institutes and universities and governmental institutions.

The BWSN-project

The Biomedical Wireless Sensor Network project have focused integration of existing sensors in a hospital environment through efficient and secure wireless communication and development of business models for collaboration between the partners in the project. The project started late 2006 and will be closed with this seminar. The BWSN-project has got financial support from Nordic Innovation Centre, NUTEK and Innovation Norway.

Project partners



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