Abstract till TeMA Hörsel 2012

Titel:
Ready-Ride: A positioning and communication system to increase the autonomy of riders with visual impairment/deafblindness

Authors: Stranneby D¹, Ranjbar P², Akner-Koler C³, and Borg E².

Affiliation:
1: Örebro University
2: Audiological Research Centre, at Örebro University
3: Konstfack, University College of Arts, Crafts and Design in Sweden

Contact information: Parivash Ranjbar
Presentatör: Parivash Ranjbar
Affiliering: Audiological Research Centre, and Örebro University
Email: parivash.ranjbar@orebroll.se
Telefon: 070-221 36 50

Medförfattare 1: Dag Stranneby
Affiliering: Örebro University

Medförfattare 2: Parivash Ranjbar
Affiliering: Audiological Research Centre, and Örebro University

Medförfattare 3: Cheryl Akner-Koler
Affiliering: Konstfack, University College of Arts, Crafts and Design in Sweden

Medförfattare 4: Erik Borg
Affiliering: Audiological Research Centre, at Örebro University

☐ Muntlig presentation  x  ☐ Poster presentation

Skicka abstract som en bifogad fil till temahorsel2012@lio.se
**Tema:** Hjälpmedel

**Abstract:**

Persons with visual impairment/deafblindness (DB) have difficulties to get information about their position in a riding arena. They have to get information tactually, which is difficult from distance. A personal assistant is often walking at the side of the horse. Sending the positional information and different commands from distance would increase the autonomy of DB rider. The standard position code (11 letters) can be transmitted to a series of vibrations and used to define the position.

In an automatic version of Ready- Ride the position of the rider in the riding arena is determined using IR camera. The rider is informed about her/his position via vibrators anchored in a west mapped as the letters in arena.

The manual version of Ready-Ride consists of two mobile parts, sender and receiver. The instructor can send commands, left, right, forward by pushing on corresponding button on the sender part. The fourth button on the sender can be used to send different commands e.g. Good, Stop, Continue and position letter.

The receiver part is constructed by four vibrators, which can be placed where the rider is comfortable.

The manual system has been tested by three DB riders and is routinely used by one.