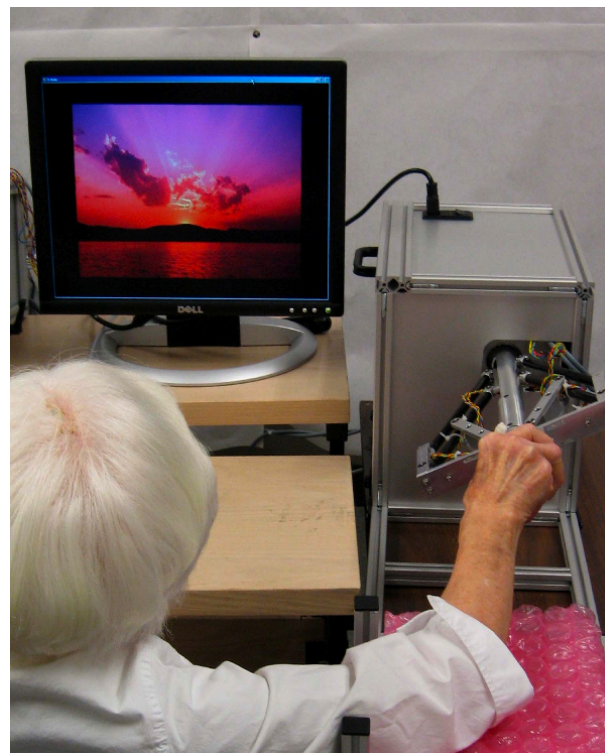
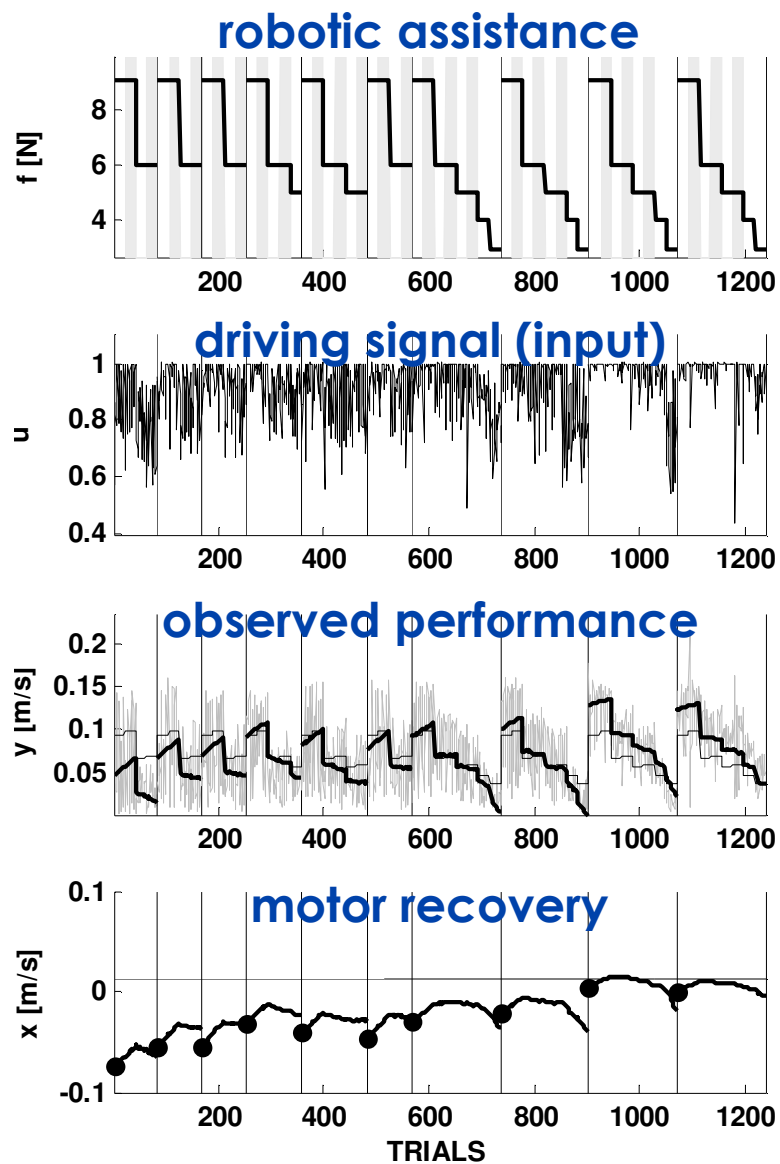


WINTER SCHOOL ON COMPUTATIONAL METHODS FOR NEUROREHABILITATION



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Action
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WINTER SCHOOL ON COMPUTATIONAL METHODS FOR NEUROREHABILITATION

- to learn theoretical and practical aspects of motor control and modelling for neurorehabilitation
- with top speakers in this novel field
- organised by the European Network on Robotics of NeuroRehabilitation (www.rehabilitationrobotics.eu)
- Committee: Etienne Burdet, Thierry Keller, Andrew Pennycott, David Ram, Vittorio Sanguineti, Duncan Turner, Sivakumar Balasubramanian, Nathanael Jarrassé

WINTER SCHOOL ON COMPUTATIONAL METHODS FOR NEUROREHABILITATION



- 40 “students” and 15 speakers&mentors
- in Obertauern (between Salzburg and Graz)
- Hotel der Schuetz: <http://www.hotel-schuetz.at>

WINTER SCHOOL ON COMPUTATIONAL METHODS FOR NEUROREHABILITATION

- 27-31 January 2014
- Tue, Wed, Thu, Fri morning (i.e., travel on Monday&Friday or can stay on the WE)
- everyday (8-12am): 3-4 lectures in the morning
- afternoon: practicals in ski biomechanics and sensorimotor control
- evening (7-9pm): mini-project in groups of 4-5

HOW TO GO THERE?

Arriving at Salzburg airport

- Shuttle service (~31 EUR single, see <http://www.obertauern.com/en/winter/local-info/fly-shuttle/fromto-salzburg.html>)
- Train from Salzburg to Radstadt (~1h20', ~15 EUR), see <https://ticketing.oebb.at>. Once in Radstadt, you continue to Obertauern (Passhöhe) using the postbus or taxi (takes ~30'), see <http://www.obertauern.com/en/winter/local-info/arrival/rail-bus-taxi.html>

HOW TO GO THERE?

Arriving at Munich airport

- Take the train from Munich to Radstadt. Train is every 2 hours (~3h15', ~50 EUR), see <http://www.bahn.com/i/view/GBR/en/>
- Once in Radstadt, you continue to Obertauern (Passhöhe) using the postbus or taxi (takes ~30'), see <http://www.obertauern.com/en/winter/local-info/arrival/rail-bus-taxi.html>

TUESDAY: COMPUTATIONAL MOTOR CONTROL METHODS

- Making sense of muscle activity in sensorimotor deficits and neurorehabilitation (Lena Ting, Emory University and Georgia Tech)
- Multisensory integration, motor adaptation and motion optimisation (Etienne Burdet, Imperial College London)
- Reinforcement learning, reward, optimal control (Emmanuel Guigon, Universite Pierre & Marie Curie)
- Mini projects (Nathanael Jarrassé, CNRS)

WEDNESDAY:

MECHANISMS OF MOTOR RECOVERY

- Understanding motor recovery post stroke (Gert Kwakkel, Vrije Universiteit, Amsterdam)
- Mechanisms of brain recovery (Duncan Turner, University of East London)
- Muscle synergies and neuromotor recovery (Andrea d'Avella, Fondazione Santa Lucia)
- Sensor-based assessment of the sensorimotor function (Sivakumar Balasubramanian, Tecnia)

THURSDAY:

MODELS TO IMPROVE THERAPY

- Modelling cortical reorganisation following stroke (Holly Rossiter, University College London)
- Neuromotor recovery at functional level (Vittorio Sanguineti, Università Degli Studi di Genova)
- Use of arm induced by therapy (Nicolas Schweighofer, University of Southern California)

FRIDAY:

- Results of lab activities: All attendees
- Panel discussion on computational neurorehabilitation: All speakers