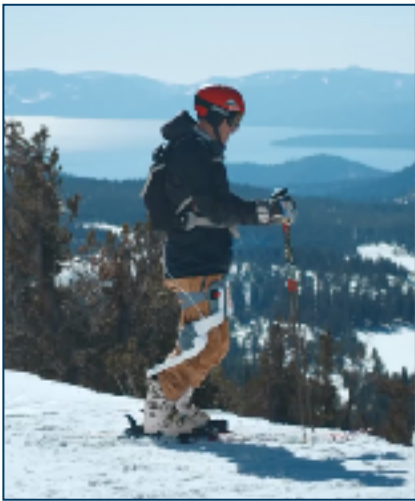




**WEARABLE  
ROBOTS**  
AUGMENTATION, ASSISTANCE OR SUBSTITUTION OF HUMAN MOTOR FUNCTIONS

**cost**  
EUROPEAN COOPERATION  
IN SCIENCE & TECHNOLOGY



**WINTER SCHOOL ON  
WEARABLE ROBOTICS**

**21-25 Jan 2019**

# WEARABLE ROBOTS

- integrated parts of human functioning made of hardware, actuators, sensors and control algorithms
- to augment, train or supplement motor function, e.g. orthotic robots, exoskeletons or robotic suits
- physical & cognitive interaction with human wearer
- applications in medical, industrial & consumer domains, e.g. neuro-rehabilitation and assistance, worker support, general augmentation
- fields involved: human biomechanics & neuromechanics,

# WS ON WEARABLE ROBOTICS

- *to learn underlying human bio- and neuro-mechanics, soft robotics design, interaction control, ergonomics, as well as applications and commercialisation*
- committee: Jan Babic, Etienne Burdet, Edwin van Asseldonk
- ~40 participants and ~12 speakers & mentors

# ACTIVITY: TUESDAY 22/1 - FRIDAY 25/1



- lectures: 8h30-12h30
- afternoon: ski, spa, tea etc.
- mini-project: 19h30-22h30





# VENUE

- Ramada hotel and resort, Kranjska Gora, Slovenia
- 65 km from Ljubljana airport



# FINANCIAL ASPECTS

- Each participation pays for their own travel and a fee to attend the winterschool (~€500,-). This fee will include
  - 4 nights and half board at Ramada hotel and resort
  - Weekly ski pass

## MONDAY:

- Arrival and welcome dinner

## TUESDAY:

- Lars Fritzsche (TU Dresden, Germany)
- Ales Holobar (U Maribor, Slovenia)
- Thomas Sugar (Arizona State U, USA)
- mini-projects



## WEDNESDAY:

- Jaap van Dieën (VU Amsterdam)
- Katja Mombaur (U Heidelberg)
- Etienne Burdet (Imperial College London, UK)
- Simona Crea (SSSA, Italy)
- mini-projects

# THURSDAY:

## INTERFACE TO AND APPLICATIONS OF WR

- Elliott Rouse (U Michigan, USA)
- Edwin van Asseldonk (U Twente)
- Domenico Pratichizzo (U Siena)
- Bernhard Graiman (Otto Bock)
- mini-projects

# FRIDAY:

- 8h30-10h30: Results of lab activities: All attendees
- 11h-12h: Panel discussion on future directions in wearable robotics

