

Program/schedule outline: Wearable Robots for Bipedal Locomotion

Time	Event
8:45-9:00am	Welcome and Overview
9:00-9:30am:	Panel (Paralegic participants- current users of powered exoskeletons): Challenges and desired real-world functionalities of wearable robots for persons with lower-body paralysis.
9:30-9:45am:	'Pooling/gathering ideas': Every workshop participant will propose one challenge in smart wearable robots to address at the workshop ('unconference' format), which will be pooled and sorted out by the organizers to conduct the group discussion. Postdoctoral trainees will serve as scribes for the 'unconference' session.
9:45-12:00pm:	<p>Unconference Session: Participation from workshop participants (academia, medical centers, industry, and end users), contributed lightning talks (3 min) and position talks (5 min) from the organizers:</p> <ul style="list-style-type: none"> • Prof. Jose Contreras-Vidal (University of Houston): Neural control of powered exoskeletons. • Prof. Jose Pons (Spanish Research Council): Associative and "Assist-as-needed" control of wearable robots • Prof. Seong-Whan Lee (Korea University): Brain re-engineering for wearable robots • Dr. Marco Molinari: (Foundation Santa Lucia): Potentialities and pitfalls for deployment of wearable robots for rehabilitation
12:00-2:00pm:	Lunch on your own
2:00-4:00pm:	<p>Patient-in-the-loop demonstrations of wearable robots with review of technology</p> <ul style="list-style-type: none"> • H2 exoskeleton (Sponsored by CSIC) • NeuroRex (Sponsored by RexBionics, New Zealand) • ReWalk (Sponsored by Advanced Technology Innovation Distribution for Argo Medical Technologies, Italy)
4:00-5:00pm:	<p>Open Panel Discussion Conducted by the Workshop Organizers</p> <ul style="list-style-type: none"> • Summary of workshop findings • Conclusions
5:00pm	Adjourn