Category: Education in the field

Workshop Title: Novel Educational Pathways in Rehabilitation

Workshop Organizer(s): Chris Easthope Awai

In person Speaker(s):

- Beck, Desiree, RESC ETH Zürich
- Jayaraman, Arun, Shirley Ryan Ability Lab
- Koh, Zen, Fourier Intelligence
- Bean Watt, Alison
- Pedrocchi, Alessandra, NEARLAB Politecnico di Milano
- Lieber, Richard, Shirley Ryan Ability Lab
- Molteni, Franco, NEARLAB Politecnico di Milano

Workshop Time: 08:15 - 09:45

Attendee Engagement:

The workshop will be structured as a short introductory round of the topic and presenter's educational programs followed by panel discussions and group work around the different main topics and challenges. Less than 30% of the workshop will be frontal lectures and these will be used only to provide background for discussion and interactive parts. Participants will be able to vote on main topics around which we will form groups that will develop ideas in group work and present these in intermittent panel presentations. We believe that we can provide a highly interactive and creative workshop with these inverted formats.

Abstract:

Rehabilitation is undergoing an accelerated transition from a predominantly in-person, single-timepoint intervention to a continuous and distributed, technologically enhanced process. The process is no longer confined to a rehabilitation clinic or regular outpatient appointments, but - as a true continuum-of-care - spans all locations including the home (Nuara et al., 2022).

With the introduction of new technologies that facilitate this process, such as robotics, wearables, mixed reality, and remote (tele-)therapy, there is a pressing need to enable practitioners to make the most of these new opportunities (Celian et al., 2021). Better understanding of the tools used and how to integrate these into existing and new rehabilitation pathways is paramount to successfully bringing a new standard of care to patients (Schopp et al., 2003).

Educational pathways must be tailored to clinical health professionals undergoing their initial training but must also be presented in digestible formats for the existing workforce. In the workshop we sample current and upcoming educational platforms that approach the space between science, rehabilitation, and technology with different perspectives. The RESC (ETH Zürich, CH), PNR (Lake Lucerne Institute, CH), and Rehabtech (Politecnico Milano, IT) target initial training with specialized Master of Science programs. MotusAcademy (CH) specializes in continuing education. C-STAR (Shirley Ryan AbilityLab, USA) and MiNT (UK) provide combinations of these approaches.

Through short presentations, panel discussions, and interactive group work, we will explore existing educational formats and brainstorm on refining these approaches to be even more inclusive and cross-cultural, while retaining socioeconomic viability. Goal of the workshop will be to position the different existing educational tools into a landscape that unveils underserved topics and populations. We will brainstorm on novel educational solutions that address these shortcomings.