Category: Application of Technology

Workshop Title: Leveraging Rehabilitation 4.0: Integrating Advanced Technologies for Personalised Patient Care

Organizer(s): Zen KOH

Speaker(s): Zen KOH (IISART, MotusAcademy)
Denny Oetomo (ICORR, University of Melbourne)
Robert Riener (ICORR, MotusAcademy, ETH)
Jose Pons (SRALab, MotusAcademy)

Workshop Time: 08:15 - 09:45

Attendee Engagement: Interactive sessions led by expert speakers, with discusssion rounds, and brainstorming sessions, end with expert led Panel Discussion

Abstract: This workshop, "Leveraging Rehabilitation 4.0: Integrating Advanced Technologies for Personalised Patient Care," explores how emerging technologies can revolutionise rehabilitation. Rehabilitation 4.0 integrates AI, robotics, VR, AR, IoT, and wearable technology to provide personalised, efficient, and impactful care. The workshop aims to equip healthcare professionals with the knowledge to implement these technologies effectively.

Zen Koh and Denny Oetomo will introduce the workshop by highlighting the importance of advanced technologies in modern healthcare. Denny Oetomo will discuss Rehabilitation 4.0, its evolution, and its impact on patient outcomes.

Robert Riener will present real-world applications, showcasing robotic exoskeletons, VR, AR, and IoT in clinical settings, while Jose Pons will cover using data analytics to create personalised rehabilitation plans.

An interactive expert panel will address challenges like cost, training, ethical considerations, and patient engagement, encouraging audience participation.

The workshop will conclude with a summary of key insights, future research directions, and a call to action for embracing Rehabilitation 4.0.

Targeting rehabilitation professionals, clinical researchers, technology developers, healthcare administrators, policymakers, and students, this workshop aims to drive innovation in rehabilitation and improve patient outcomes through advanced technologies.