Exoskeleton/Exosuit II

Date / Time | Aug. 22 (Mon.), 2022 / 14:00-15:30
Room | Room 515
Session Chair | Sunil K. Agrawal (Columbia University), Jonghyun Kim (Sungkyunkwan University)

[MoO2B.1] 14:00-14:15
Amyotrophic Lateral Sclerosis Patients Regain Head-Neck Control using a Powered Neck Exoskeleton

[MoO2B.2] 14:15-14:30
Interleaved Assistance and Resistance for Exoskeleton Mediated Gait Training: Validation, Feasibility and Effects
Thomas C. Bulea, Vahidreza Molazadeh, Maxwell Thurston, and Diane L. Damiano

[MoO2B.3] 14:30-14:45
Using Dynamic Simulations to Estimate the Feasible Stability Region of Feet-In-Place Balance Recovery for Lower-Limb Exoskeleton Users
Keaton A. Inkol and John McPhee

[MoO2B.4] 14:45-15:00
Measuring Anthropometric Fit for Exoskeletons: Methodologies and Preliminary Assessment
Matteo Sposito, Vasco Fanti, Pinar Sencandan, Darwin G. Caldwell, and Christian Di Natali

[MoO2B.5] 15:00-15:15
EMG Based Body-Machine Interface for Adaptive and Personalized Robotic Training of Persons with Multiple Sclerosis
Camilla Pierella, Laura Pellegrino, Margit Muller, Martina Coscia, Matilde Inglese, Claudio Solaro, and Maura Casadio

Development of Soft Variable Stiffness Actuator with Tendon-Driven Layer Jamming Mechanism
Seoyeon Ham, Brian Byunghyun Kang, Jihoon Kim, Seunghoon Hwang, and Wansoo Kim