Séminaire labélisé MEGA (LBMC, UMR_T9406 Univ Eiffel et UCBL)

Mardi 16 Juillet 2024, 15h

Enhancing Healthcare and Well-being through Digital Human Models and Technology Integration

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Abstract

Digital human models in healthcare and well-being serve as sophisticated digital representations of physical entities, systems, or processes that operate across diverse environments, including healthcare settings. These models are intricately connected with various digital technologies, such as artificial intelligence (AI) and ergonomic simulations, enabling seamless integration of data and insights to enhance overall well-being. By leveraging digital human models, professionals can personalize health interventions to meet individual needs and preferences effectively, while also optimizing human performance, comfort and well-being. These models provide comprehensive insights into various aspects of health, care, and well-being, facilitating tailored approaches that optimize healthcare practices and foster advancements in personalized and precision medicine.

Biography

Sofia Scataglini is a Biomedical Engineer and Professor at Antwerp University in Digital Human Modelling (DHM) and wearable for ergonomics, health and wealth. She is recognized with the title of European Ergonomist (Eur.Erg.), CREE, a member of the Scientific Committee of the International Ergonomics Association (IEA) and chair of the IEA Technical Committee on Digital Human Modeling and Simulation. Sofia is the founder of the Digital Human Modeling by Women group (DHMW), which is dedicated to promoting women in STEAM around the world. Sofia organizes congresses related to applied human factor, ergonomics, and digital human modelling (DHM).

Her research activities focus on research and design of products, systems, environments, and services for the health, care, and well-being of people using Co-Design and User-Centered Design methods combined with Ergonomics.

Sofia Scataglini is also an active editor, writer and reviewer of book and journals, scientific grant focusing on sensors, medicine, health and care, modelling and simulation, standardization, ergonomics, biomechanics and design.

She is involved in different working groups for standardization such as National (NBN), European (CENELEC) and International levels (ISO and IEC) for Ergonomics, Wearable, Smart textiles, PPE and clothing.