

<b>DAY 1</b>			
9.30-10.30	Opening a ceremony with a keynote		
10.30-12.15	Product / task development and performance evaluation using DHM - I	Towards enhanced functionality and usability of giving manikin task instructions in a DHM tool  Workwear with Loosely Coupled IMU Sensors for Posture Classification During Assembly Tasks: A Pilot Study Effectiveness of the ExoWork shoulder exoskeleton on full-body musculoskeletal loading – a case study in the workplace Augmented operators and virtual user manuals for complex industrial systems: a human centered perspective Analysis of musculoskeletal loads during prolonged sitting in the desk work	Peter Mårdberg, Dan Högberg, Johan S. Carlson and Rikard Söderberg  Markus Peters and Sascha Wischniewski  Arthur Van der Have, Sam Van Rossum, Ise Jonkers Giuseppe Minicelli, Gian Andrea Giobbone, Silvia Imbesi Akinari Hirao, Hayato Uchida and Takeo Kato
12.15-13.30	Lunch Break		
13.30-15.20	DHM based anthropometry	Bridging the gap between body scanning and ergonomic simulation of human body interaction in autonomous car interiors Automated investigation of the breast – bra interaction using 4D scan data and oscillation analysis Comparing weighting algorithms for anthropometric datasets to enable the generation of representative digital human models Application of using 4D scanning technologies in biomechanics A workflow for deforming external body shapes with the help of an anatomically correct skeletal model	Jorge Valero, Sofia Irazzo, Jordri Uriel, Alfredo Ballester, Jose Solaz, Sa-muel Baudu, Sandra Alemany Ann-Malin Schmidt, Reinhard Schmidt, Gretel Surabe Iturralde Gonzalez, and Yordan Kyosev Alexander Ackemann, Sascha Wischniewski Helios De Rosario, Sofia Scataglini, Fermin Basso, Sandra Alemany, Wim Saeyns, Steven Truijen Alejandra Polanco, Yoann Lafon, Georges Beurrier, Junfeng Peng, and Xuguang Wang
15.20-15.45	Coffee break		
15.45-16.40	DHM in automotive I	Modelling neck postural stabilization using optimal control techniques for dynamic driving Computationally efficient human body modelling for real time motion comfort assessment Preferred postures for doing non-driving related activities in reclined seating configurations in highly automated vehicles	Chrysovalanto Messiou, Georgios Papaioannou, and Riender Happee Raj Desai, Marko Cvetković, Junda Wu, Georgios Papaioannou, Riender Happee Shabang Shayegan, Xuguang Wang, Lisa Denninger, Georges Beurrier
16.45-17.45	TC meeting		
18.30-20.00	Dinner		
<b>DAY 2</b>			
9.30-10.00	Welcome and introduction		
10.00-12.15	DHM in biomechanics	Joint-Based Metabolic Energy Expenditure for Physiology Simulation in Digital Human Avatars Estimation of Upper Limb Joint Torques in Static and Dynamic Phases for Lifting Tasks Does the initial guess affect the estimations of knee ligaments properties via optimization procedures? Influence of experimental protocol and the optimization method on the non-invasive estimation of knee ligaments properties Joint Movement Assessment Applied to Unilateral Amputee Cycling Real time 3D human body skeleton extraction from videos using improved YOLOv5	Garrett Tuer, Nathan Pickle, Nathan Broyles, James Yang, Ryan Middle, Gary Zientar, and Paulien Roos Hassna Ouadoudi Belabizou, Charles Pontonnier, Georges Dumont, Pierre Plantard, Franck Mouton Ilias Theodorakos and Michael Skipper Andersen Ilias Theodorakos and Michael Skipper Andersen Heloisa Seratiuk Hores, Wen Liang Yeoh, Kyosuke Morinaga, Satoshi Muraki
12.15-13.30	Lunch Break		
13.30-15.20	DHM in biomechanics II	Finite elements of the donning phase on prosthetic socket for transfemoral amputee Comparison of wearable inertial sensors and RGB-D cameras for ergonomic risk assessment Validation of computationally estimated human body seat contact forces during sitting Critical appraisal of using digital human model, virtual human, human digital twin and digital twin Analysing Gyroscopic Balance Support in Full-body Human Models based on Predictive Simulations	Michele Bertolini, Chiara Moreschini, Paolo Siffredi, Giorgio Colombo, Marco Rossoni Marianna Caccarelli, Cecilia Soccia, Matteo Forlini, Alessandra Papetti, Giacomo Palmieri, Michele Germani Ilias Theodorakos and Xuguang Wang Sofia Scataglini, Steven Truijen Andrés F. Hidalgo, Davide Geoffrey Svampa, and Nikhil Deshpande
15.20-15.45	Coffee break		
15.45-16.30	DHM in biomechanics III	The modelling of bariatric populations in Digital Human Modelling systems  Living space simulator: visualizing estimations of childhood injury risk based on geometric reachability	Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Diane Gyi Natsuki Miyata, Fumiya Endo, and Yusuke Maeda
16.30-17.30	Network activity		
18.00-20.00	Dinner		
<b>DAY 3</b>			
10.00-10.30	Welcome and introduction		
10.30-12.15	Product/task development and performance evaluation using DHM - II	Can a numerical digital human finger model predict subjective comfort rating of handheld products? Towards an approach for a holistic ergonomic work design using physical and cognitive digital human models Simulation of ergonomic assembly through a Digital Human Modeling software Considering individual abilities and age-related changes in digital production planning using digital human models Fluid structure interaction modeling of peak expiratory-inspiratory flow in a stented upper airway using experimental data	Gregor Harih, Vasja Plešec Nele Russwinkel, Michael Spitzhim, Wolfram Remlinger, Martin Fleischer Henrik Soderlund, Leonard Bogojevic, Liang Gong, Björn Johansson, Roland Örtengren Michael Spitzhim, Sascha Ullmann, Lars Fritzsche Hamidreza Mortazavy Beni, Hamed Mortazavy, Sofia Scataglini, Steven Truijen, Mohamad S. Islam and Gunther Paul
12.15-13.30	Lunch Break		
13.30-14.10	DHM in stroke	The effects of music-based rhythmic auditory stimulation on stroke using wearable devices: a pilot study Classification Models in Post-stroke patients based in Human Hand Motion	Sofia Scataglini, Zala Van Dyck, Veronique Declercq, Giffre Van Cleemput, Steven Truijen Esteban Peña-Pitarch, Jesus Fernando Padilla-Magaña, Anas Al Omar, Itaki Alcalay Larrion
14.10-15.00	Presentation only with abstract	Spacesuit Reach Capability and Work Volume Assessment Monitoring of functional recovery of a muscle by free vibration measurement	Han Kim, Elizabeth Benson, Yaritza Hernandez, Sudhakar Rajulu Agnieszka Tomaszewska, Milena Drozdowska, Piotr Aschenbrenner
15.00-16.00	Closing ceremony and Awards		