DAY 1			
.30-10.30	Opening a ceremony with a keynote		
	shared a second s		Peter Mårdberg, Dan Högberg, Johan S. Carlson and Rikard Söderberg
0:30-12:15	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	Markus Peters and Sascha Wischniewski
		Effectiveness of The Exo4Work shoulder exoskeleton on full-body musculoskeletal loading - a case study in the workplace	Arthur Van der Have, Sam Van Rossom, Ilse Jonkers
		Augmented operations and virtual user manuals for complexindustrial systems: a human centered perspective	GiuseppeMincolelli, Gian Andrea Giaobone, Silvia Imbesi
		Analysis of muscoloskeletal loads during prolonged sitting in the desk work	Akinari Hirao, Hayato Uchidaand Takeo Kato
: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	Jorge Valero, Sofía Iranzo, Jordi Uriel, Alfredo Ballester, Jose Solaz,Sa- muel Baudu, Sandra Alemany
		Automated investigation of the breast – bra interaction using 4D scan data and oscillation analysis	Ann-Malin Schmidt, Reinhard Schmidt, Grethel Surabe Iturralde Gonzalez, and Yordan Kyosev
		Comparing weighting algorithms for anthropometric datasets to enable the generation of representative digital human models	Alexander Ackermann, Sascha Wischniewski
		Application of using 4D scanning technologies in biomechanics	Helios De Rosario, Sofia Scataglini, Fermín Basso, Sandra Alemany, Wim Saeys, Steven Truijen
		A workflow for deforming external body shapes with the help of an anatomically correct skeletal model	Alejandra Polanco, Yoann Lafon, Georges Beurier, Junfeng Peng, and Xuguang Wang
20-15:45	Coffee break		
45-16.40	DHM in automotive I	Modelling neck postural stabilization using optimal control techniques for dynamic driving	Chrysovalanto Messiou, Georgios Papaioannou, and Riender Happee
		Computationally efficient human body modelling for real time motion comfort assessment	Raj Desai, Marko Cvetković, Junda Wu, Georgios Papaioannou, Riender Happee
		Preferred postures for doing non driving related activities in reclined seating configurations in highly automated vehicles	Shabahang Shayegan, Xuguang Wang, Lisa Denninger, Georges Beurier
.45-17.45	TC meeting		
.30-20.00	Dinner		
Y 2			
0-10.00	Welcome and introduction		
00-12:15	DHM in biomechanics	Joint-Based Metabolic Energy Expediture for Physiolgy Simulation in Digital Human Avatars	Garrett Tuer, Nathan Pickle, Nathan Broyles, James Yang, Ryan Middle, Gary Zientar, and Paulien Roos
		Estimation of Upper-Limb Joint Torques in Static and Dynamic Phases for Lifting Tasks	Hasnaa Ouadoudi Belabzioui, Charles Pontonnier, Georges Dumont, Pierre Plantard, Franck Multon
		Does the initial guess affect the estimations of knee legaments properties via optimization procedures?	Ilias Theodorakos and Mickael Skipper Andersen
		Influence of experimental protocol and theoptimization method on the non invasive estimation of knee ligaments properties	Ilias Theodorakos and Mickael Skipper Andersen
		Joint Movement Assessment Applied to Unilateral Amputee Cycling	Heloisa Seratiuk Flores, Wen Liang Yeoh, Kyosuke Morinaga, Satoshi Muraki
		Real time 3D human body skeleton extraction from videos using improved YOLOVS	
:15-13:30	Lunch Break	Real time 3D human body skeleton extraction from videos using improved YOLOv5	
:15-13:30	LunchBreak	keai time su human booy sxeleton extraction rrom videos using improved rULUVS	
	LunchBreak DHM in biomechanics II		Michele Bertolini, Chiara Moreschini, Paolo Siffredi, Giorgio Colombo, Marco Rossoni
		Finite elements of the donning phase on prosthetic socket for transfermoral amputee	Michele Bertolini, Chiara Moreschini, Paolo Siffredi, Giorgio Colombo, Marco Rossoni Marianas Occarelli, Cecilia Scoccia, Matteo Forlini, Alessandra Papetti, Giacomo Palmieri, Michele Germani
		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	Marianna Ciccarelli, Cecilia Scoccia, Matteo Forlini, Alessandra Papetti, Giacomo Palmieri, Michele Germani
		Finite elements of the donning phase on prosthetic socket for transfermoral amputee	
		Finite elements of the donning phase on prosthetic socket for transfermoral 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	Marianna Ciccarelli, Cecilia Scoccia, Matteo Forlini, Alessandra Papetti, Giacomo Palmieri, Michele Germani Ilias Theodorakos and Xuguang Wang
		Finite elements of the donning phase on prosthetic socket for transfermoral 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 mod digital twin	Mariama Grcarvelli, Cacilla Soccia, Matteo Forlint, Alessandra Papetti, Giacomo Palmiert, Michele Germani Illias Theodorakos and Xuguang Wang Sofia Scatagini, Steven Truijen
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30-15:20 20-15:45 245-16:30 30-17:30 00-20:00 <b>173</b> 00-10:30 30-12:15 30-12:15 30-12:15	DHM In biomechanics II  Coffee break  DHM In biomechanics II  Coffee break  DHM In biomechanics III  Network activity Dinner  Welcome and introduction  Product/task development and performance evaluation using DHM - II	Finite elements of the doming phase on prosthetic rocket for transformal amputee     Comparison of wearable inertial sensors and RGB-D cameras for ergonomic risk assessment     Vialitation of computationally estimated human body set contact forces during sitting     Critical appraisal of using digital human model, virtual human, human digital twin and digital twin     Analysing Gyroscopic Batance Support in Full-body Human Models based on Predictive Simulations     The modelling of bariatric populations in Digital Human Modeling systems     Living space simulator: visualizing estimations of childhood injury risk based on geometric reachability     Cana numerical digital human finger model predict subjective comfort rating of handheld products?     Towards an approach for a holistic engonomic work design using physical and cognitive digital human models     Simulation of ergonomic assembly through a Digital Human Modeling software     Considering individual billities and age-related changes in digital production printing using digital human models     Fluid structure interaction modeling of pask expiratory-inspiratory flow in a stented upper airway using experimental data     The effects of music-based frythmic auditory stimulation on stroke using wearable devices: a pilot study	Mariana Gicarelli, Cerilia Socicia, Mattere Fortini, Alexandra Papetti, Giacomo Palmiert, Michele Germani         Ilitas Theodorakos and Xuguang Wang         Sofia Scataglini, Steven Truijen         Andreis F. Hidalgo, Davide Geoffrey Svampa, and Nikhil Deshpande         Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Dlane Gyi         Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Dlane Gyi         Natsuki Miyata, Furniya Endo, and Yusuke Maeda         Gregor Hanh, Vasja Plesec         Nele Russwinkel, Michael Spitzhim, Wolfram Remlinger, Martin Fleischer         Hennik Söderfund, Leonard Bogolevic, Lang Gorg, Björn Johansson, Roland Ortengren         Michael Spitzhim, Sasha Uliman, Lars Fritzsche         Hamidreza Mortazavj Beni, Hamed Mortazavi, Sofia Scataglini, Steven Truijen, Mohammad S. Islam and Gunther Paul         Sofia scataglini, Zala Van Dyck, Veronique Declercq, Gitte Van Cleemput, Steven Truijen
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30-15:20 20-15:45 245-16:30 30-17:30 00-20:00 <b>173</b> 00-10:30 30-12:15 30-12:15 30-12:15	DHM in biomechanics II  Coffee break  Coffee break  DHM in biomechanics II  DHM in biomechanics III  Network activity Dinner  Welcome and introduction  Product/task development and performance evaluation using DHM - II  Lunch Break Lunch Break	Finite elements of the doming phase on prosthetic rocket for transformal amputee     Comparison of wearable inertial sensors and RGB-D cameras for ergonomic risk assessment     Vialitation of computationally estimated human body set contact forces during sitting     Critical appraisal of using digital human model, virtual human, human digital twin and digital twin     Analysing Gyroscopic Batance Support in Full-body Human Models based on Predictive Simulations     The modelling of bariatric populations in Digital Human Modeling systems     Living space simulator: visualizing estimations of childhood injury risk based on geometric reachability     Cana numerical digital human finger model predict subjective comfort rating of handheld products?     Towards an approach for a holistic engonomic work design using physical and cognitive digital human models     Simulation of ergonomic assembly through a Digital Human Modeling software     Considering individual billities and age-related changes in digital production printing using digital human models     Fluid structure interaction modeling of pask expiratory-inspiratory flow in a stented upper airway using expirimental data     The effects of music-based frythmic auditory stimulation on stroke using wearable devices: a pilot study	Mariana Gicarelli, Cerilia Socicia, Mattere Fortini, Alexandra Papetti, Giacomo Palmiert, Michele Germani         Ilitas Theodorakos and Xuguang Wang         Sofia Scataglini, Steven Truijen         Andreis F. Hidalgo, Davide Geoffrey Svampa, and Nikhil Deshpande         Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Dlane Gyi         Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Dlane Gyi         Natsuki Miyata, Furniya Endo, and Yusuke Maeda         Gregor Hanh, Vasja Plesec         Nele Russwinkel, Michael Spitzhim, Wolfram Remlinger, Martin Fleischer         Hennik Söderfund, Leonard Bogolevic, Lang Gorg, Björn Johansson, Roland Ortengren         Michael Spitzhim, Sasha Uliman, Lars Fritzsche         Hamidreza Mortazavj Beni, Hamed Mortazavi, Sofia Scataglini, Steven Truijen, Mohammad S. Islam and Gunther Paul         Sofia scataglini, Zala Van Dyck, Veronique Declercq, Gitte Van Cleemput, Steven Truijen
:30-15:20 :20-15:45 :45-16:30 :30-17:30 :00-20:00 <b>XY3</b> ::00-10:30 ::30-12:15 ::15-13:30 ::30-14:10	DHM in biomechanics II DHM in biomechanics II Coffee break DHM in biomechanics III DhM in biomechanics III DHM in biomechanics III Network activity Dimer Welcome and introduction Product/ task development and performance evaluation using DHM - II Product/ task development and performance evaluation using DHM - II Lunch Break DHM in stroke DHM in stroke	Finite elements of the donning phase on prosthetic socket for transfermoral anguste     Comparison of wearable Inertial sensors and KGB-D Cameras for ergonomic risk assessment     Validation of computationally estimated human body set critical forces during sitting     Critical appraisal of using digital human model, virtual human, human digital twin and digital twin     Analysing Gvroscopic Balance Support in Full-body Human Modeling systems     The modelling of bariatric populations in Digital Human Modeling systems     Living space simulator: visualizing estimations of childhood injury risk based on geometric reachability     Cana numerical digital human finger model predict subjective comfort rating of fandheld 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 productor) and using digital human models     Fluid structure interaction modeling of eak expiratory-inspiratory flow in a stented upper airway using experimental data     The effects of music-based flythmic auditory stimulation on stroke using wearable devices: a pilot study     Classification Models in Post-stroke patients based in Human Hand Motion	Mariama Cicarelli, Cetila Socica, Mattee Ferlini, Alessandra Papetti, Giacomo Palmiert, Michele Germani Illias Theodorasis on ad Xugianay Wang Sofia Scataglini, Steven Truijen Andreis F. Hidalgo, Davide Geoffrey Svampa, and Nikhil Deshpande Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Diane Gyi Natsuki Miyata, Fumiya Endo, and Yusuke Maeda Stephen Summerskill, Annabel Masson, Jon Mason, Joshua Fox, Russell Marshall, Diane Gyi Natsuki Miyata, Fumiya Endo, and Yusuke Maeda Gregor Hanh, Vasja Plesec Nele Russwinkel, Michael Spitzhim, Wolfram Remlinger, Martin Fleischer Henrik Söderlund, Leonard Bogijewic, Liang Gong, Björn Johansson, Roland Ortengren Michael Spitzhim, Sascha Ullinann, Lars Fitzsche Hamidreza Mortazavy Ben, Hamed Mortazav, Sofia Scataglini, Steven Truijen, Mohammad S. Islam and Gunther Paul Sofia scataglini, Zala Van Dyck, Véronique Declercq, Gitte Van Cleenput, Steven Truijen Esteban Peña-Pitarch, Jesis Fernando Padilla-Magaña, Anas Al Omar, ilhak Alcelay Larrión
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