



**OT**  
**DIGITAL**  
**2022**

Congress for Digitalisation in  
Orthopaedics & Traumatology

**HYBRID**

**02./03.12.2022**

Meliá Berlin, Germany

[www.OTdigital.eu](http://www.OTdigital.eu)

## INVITATION

Welcome to the first OTdigital congress,

Digital transformation has revolutionised our daily life and has also become an integral part of orthopaedics and traumatology.

Our congress wants to provide a scientific platform for exchanging current and future core topics of digitalisation in orthopaedics and traumatology. Digitalisation is significantly changing the way how we provide care for our patients, communicate with colleagues or other healthcare partners, and conduct research.

What we currently see is just the beginning!

## INVITATION

Digital tools can improve our patients' safety through various points - from prevention to diagnostics, therapy and rehabilitation - and assist us in focusing more on our patient care delivery. This potential gives surgeons, nurses, and therapists worldwide broader access to high-quality performance and a relief of their workload.

Our goal is to present relevant aspects of current developments, trends, and controversies of digitalisation in orthopaedics and traumatology.

We want to establish a scientific platform and community to improve digitalisation's use in our daily work.



## PROGRAM, FRIDAY 02.12.2022

**11:00**      **Registration & Welcome Coffee**

**12:00**      **Welcome, greetings and introduction**

**12:30**      **Keynote**

Where is the value of digital health?  
The emergence of digital health ecosystems and implications for orthopaedics

 Tobias Silberzahn

**13:00**      **Session 1**  
**mHealth: Apps & Wearables**

Chairs:  Bernd Grimm  
 Serafeim Tsitsilonis

20'      What's possible and happening with wearables & apps in orthopaedics & traumatology

 Bernd Grimm

10'      Validating digital mobility biomarkers from wearables as clinical trial end-points in hip fracture patients and beyond: The Mobilise-D consortium

 Silvia Del Din

10'      The MOVITA consortium - wearable sensors to reduce hospital visits after knee joint replacement

 Pieter van Doorn

10'      Smartphone apps to support the patient journey, collect self-reports and harvest wearable data in clinical practice

 Peter Pilot

10'      Discussion

**14:00**      **Break**

## PROGRAM, FRIDAY 02.12.2022

**14:30**      **Session 2**  
**AI & Big Data**

Chairs:  Li Felländer-Tsai  
 Georg Osterhoff

20'      AI in O&T: Introduction and thoughts on ethics and accountability

 Li Felländer-Tsai

10'      Artificial intelligence for outcome prediction in fractures

 Jacobien Oosterhoff

10'      Pearls and pitfalls in clinical AI research

 Max Gordon

10'      The OR black box as an example for how AI can be used to improve patient safety

 Anne Sophie Van Dalen

10'      Discussion

**15:30**      **Workshop**

**16:00**      **Break**

## PROGRAM, FRIDAY 02.12.2022








<b>16:30</b>	<b>Session 3</b> <b>Training and education in mixed reality (AR/VR)</b> Chairs:  Philip Fürnstahl  Nassir Navab
20'	Surgical training in clinics: status quo, emerging technologies and outlook  Philip Fürnstahl
10'	Medical augmented reality in orthopaedic and trauma surgery  Nassir Navab
10'	Surgical Training in the Medical Metaverse  Steve Kateros
10'	VR/AR helps to educate the next generation of orthopaedic and trauma surgeon  Wathik El Alami
10'	Discussion

**17:30** **International panel discussion**  
Digitalisation – euphoria and reality after Covid

**18:30** **Closure**


**18:45** **Get-together**

## PROGRAM, SATURDAY 03.12.2022

<b>09:00</b>	<b>Welcome and introduction</b>
<b>09:15</b>	<b>Session 1</b> <b>Telemedicine and digital communication</b> Chairs:  Thomas Freude  Marko Neva
20'	Telemedical consultations before during and after the COVID lockdowns - where are we now?  Wojciech Glinkowski
10'	Telemedicine in remote orthopaedic consultations. A randomized controlled trial  Astrid Buvik
10'	Remote mobile consultation in austere environments - a british military initiative  Richard Booker
10'	The needs and possibilities of digital communication in orthopaedics and trauma - case example of the use of digital communications in a level-1 hospital  Marko Neva
10'	Discussion
<b>10:15</b>	<b>Keynote</b> Drivers of innovation and the inevitability of digital transformation in health care  Stefano A. Bini
<b>10:45</b>	<b>Break</b>

## PROGRAM, SATURDAY 03.12.2022


**11:45** **International Panel**  
Robotics & Cyborgs –  
where is our orthopaedic future?

**12:15** **Venture Pitch**  
Rocket start-ups in O&T  
 Dominik Pfüringer

**12:45** **Break**



**13:45** **Session 2**  
**Digital documentation and  
legal aspects**

Chairs:  Andrew Price  
 Robert Zahn

20' The smart hospital - where are we  
today, where is our near future?  
 Sylvia Thun

10' Maximising the value of PROMs for our  
patients  
 Andrew Price

10' Digitizing the informed consent pro-  
cess: a review of the regulatory land-  
scape in the European Union  
 Janos Meszaros

10' Digital world options for doctors based  
on Estonian national health information  
system  
 Aare Märtson,  
 Katre Maasalu

10' **Discussion**


## PROGRAM, SATURDAY 03.12.2022

**14:45** **Session 3**  
**Digital documentation and  
legal aspects**  
Chairs:  Francisco Chana Rodríguez  
 Bergita Ganse

20' Robotics in the digital OR  
 Cristiano Paggetti

10' New approaches in the development  
of smart implants for the treatment of  
fractures  
 Bergita Ganse

10' 3D printing as planning tool for  
complex operations  
 Francisco Chana Rodríguez


10' 1-year experience with AR guided  
intraoperative operations in knee  
arthroplasty  
 Michael Engl


10' Discussion


**15:45** **Venture Pitch & Digital poster  
presentation - Award ceremony**


**16:00** **Closure**


## CHAIRS AND SPEAKERS


 **Back, David A.**, M.D., MBA  
Bundeswehr Hospital Berlin, Academic Teaching Hospital of  
Charité – Universitätsmedizin Berlin, Germany

 **Bini, Stefano A.**, M.D., Prof.  
Department of Orthopaedic Surgery,  
University of California San Francisco (UCSF) & DOCSF, San Francisco, USA


 **Booker, Richard**, Lt. Col.  
Research & Clinical Innovation SO1 Implementation,  
Defence Medical Services, London, United Kingdom


 **Buvik, Astrid**, M.D., Ph.D.  
Department of Orthopaedic Surgery,  
University Hospital of North Norway, Tromsø, Norway


 **Chana Rodríguez, Francisco**, M.D., Prof.  
Orthopedic Surgery and Traumatology Service,  
Hospital General Universitario Gregorio Marañón, Madrid, Spain


 **Del Din, Silvia**, Ph.D.  
Translational and Clinical Research Institute,  
Newcastle University, Newcastle, United Kingdom


 **El Alami, Wathik**,  
Guy's and St Thomas' NHS Foundation Trust, London, UK

 **Engl, Michael**, M.D., M.P.H  
Orthopedic and Trauma Unit, General Hospital Sterzing, Südtiroler  
Sanitätsbetrieb / Azienda sanitaria dell'Alto Adige, Sterzing, Italy


 **Felländer-Tsai, Li**, M.D., Ph.D., Prof.  
Center for Advanced Medical Simulation and Training (CAMST),  
Karolinska Institutet & Karolinska University Hospital, Stockholm, Sweden


 **Freude, Thomas**, M.D., Prof.  
Department of Orthopedics and Traumatology, Salzburg University  
Hospital, Paracelsus Medical University, Salzburg, Austria


 **Fürnstahl, Philip**, Ph.D., Prof.  
Research in Orthopaedic Computer Science (ROCS),  
University Hospital Balgrist, Zurich, Switzerland


 **Ganse, Bergita**, M.D., Prof.  
Department of Trauma, Hand and Reconstructive Surgery & Innovative  
Implant Development, Saarland University, Saarbrücken, Germany


## CHAIRS AND SPEAKERS


 **Glinkowski, Wojciech**, M.D., Ph.D., Prof.  
Department of Medical Informatics and Telemedicine,  
Medical University of Warsaw, Warszawa, Poland


 **Gordon, Max**, M.D., Ph.D.  
Clinical Artificial Intelligence Laboratory (CAIR-Lab),  
Karolinska Institutet, Stockholm, Sweden


 **Grimm, Bernd**, Ph.D.  
Human Motion, Orthopaedics, Sports Medicine, Digital Methods  
(HOSD), Luxembourg Institute of Health, Luxembourg, Luxembourg


 **Kabir, Koroush**, M.D.  
Helios University Hospital Wuppertal,  
University of Witten/Herdecke, Germany


 **Kateros, Steve**  
ORamaVR, Geneva, Switzerland


 **Maasalu, Katre**, M.D., Prof.  
Department of Traumatology and Orthopedics (ARTO),  
University of Tartu, Tartu, Estonia


 **Märtson, Aare**, M.D., Ph.D., Prof.  
Department of Traumatology and Orthopedics (ARTO),  
University of Tartu, Tartu, Estonia

 **Meszaros, Janos**, Ph.D.  
Division of Clinical Pharmacology and Pharmacotherapy,  
Department of Pharmaceutical and Pharmacological Sciences,  
Katholieke Universiteit Leuven, Leuven, Belgium


 **Navab, Nassir**, Ph.D., Prof.  
Computer Aided Medical Procedures & Augmented Reality  
Technical University of Munich, Munich, Germany


 **Neva, Marko**, M.D., Ph.D.  
Department of Musculoskeletal Diseases,  
Tampere University Hospital, Tampere, Finland


 **Oosterhoff, Jacobien H.F.**, M.D.  
Department of Orthopaedic Surgery,  
Amsterdam University Medical Center, Amsterdam, Netherlands


 **Osterhoff, Georg**, M.D.  
Department of Orthopaedics, Trauma and Reconstructive Surgery,  
University Hospital Leipzig, Leipzig, Germany


## REFERENTEN


 **Paggetti, Cristiano**, Ph.D., Prof.  
School of Computing and Information Engineering,  
Ulster University, Ulster, United Kingdom


 **Pförringer, Dominik**, M.D.  
Technical University of Munich, Germany


 **Pilot, Peter**, Ph.D.  
IMUKA knowledge platform, Roosteren, Netherlands

 **Price, Andrew**, M.D., Prof.  
Nuffield Department of Orthopaedics, Rheumatology and Musculoskeletal Sciences, University of Oxford, Oxford, United Kingdom

 **Silberzahn, Tobias**, Ph.D.  
McKinsey & Company, Berlin, Germany

 **Thun, Sylvia**, M.D., Prof.  
Core-Unit eHealth and Interoperability (CEI), Berlin Institute of Health (BIH) & Charité-Universitätsmedizin Berlin, Berlin, Germany

 **Tsitsilonis, Serafeim**, M.D., Ph.D.  
Center for Musculoskeletal Surgery,  
Charité – Universitätsmedizin Berlin, Berlin, Germany

 **Van Dalen, Anne Sophie**, M.D.  
Department of Surgery, Amsterdam University Medical Center,  
University of Amsterdam, Netherlands

 **Van Doorn, Pieter**  
Faculty of Behavioural and Movement Sciences, Neuromechanics,  
Vrije University Amsterdam, Amsterdam, Netherlands

## SPONSORS



3,000 €



3,000 €



1,500 €



1,400 €



10,000 €



1,000 €



1,500 €



1,400 €



4,900 €

## GENERAL INFORMATION

### Meeting Dates

02. & 03.12.2022

### Chairmen

Priv.-Doz. Dr. med. David A. Back, MBA  
Priv.-Doz. Dr. med. Koroush Kabir

### Congress Secretaries

Dr. med. univ. Dominik Adl Amini  
Dr. med. Eva-Maria Arndt

### Pitch

Priv.-Doz. Dr. med. Dominik Pförringer

### Location

Meliá Berlin  
Friedrichstraße 103,  
10117 Berlin, Germany

or via Livestream

### Official Language

English, simultaneous translation will not be provided

### Patronage



### Organizer and Registration

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## GENERAL INFORMATION

### Participation fees

	On Site	Online
Physician/Scientist	300,- €	240,- €
Resident/Scientist in training	240,- €	180,- €
Nurse and other healthcare professional	160,- €	100,- €
Student	80,- €	20,- €

### Registration

For more information about the congress and the registration, please visit [www.OTdigital.eu/registration](http://www.OTdigital.eu/registration)

### Poster submission

For information on submitting posters, please visit [www.OTdigital.eu/poster-submission](http://www.OTdigital.eu/poster-submission)

Submission deadline: - 15.11.2022 -

### Startup pitch

For information on applying your pitch, please visit [www.OTdigital.eu/startup-pitch](http://www.OTdigital.eu/startup-pitch)

### Certification

The certification of this event will be applied at the Medical Association of Berlin.

### Medtech Europe

OT Digital congress has been evaluated and approved to be COMPLIANT in all categories.



The logo features the letters 'O' and 'T' in white, each inside a hexagon. The 'O' hexagon is light teal, and the 'T' hexagon is a darker teal. A light blue hexagon is positioned above the 'O'. Below the hexagons, the words 'DIGITAL' and '2022' are written in a bold, black, sans-serif font.

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