



OT
DIGITAL
2022

Congress for Digitalisation in
Orthopaedics & Traumatology

HYBRID

02./03.12.2022

Meliá Berlin, Germany

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.






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**

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' AI-based decision-making in the management of severely injured patients
 Georg Osterhoff








10' Discussion

15:30 **Workshop**


PROGRAM, FRIDAY 02.12.2022


16:00	Break
16:30	Session 3 Training and education in mixed reality (AR/VR) Chairs:  Philip Fürnstahl  Nassir Navab
15'	Surgical training in clinics: status quo, emerging technologies and outlook  Philip Fürnstahl
15'	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 Chair:  Dominik Pförringer Digitalisation – euphoria and reality after Covid  Stefano A. Bini  Li Felländer-Tsai  Marko Neva  Tobias Silberzahn
18:30	Closure
18:45	Get-together

PROGRAM, SATURDAY 03.12.2022


09:00	Welcome and introduction
09:15	Session 1 Telemedicine and digital communication 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
10:15	Keynote Drivers of innovation and the inevitability of digital transformation in health care  Stefano A. Bini
10:45	Break

11:15 International Panel

Chair:  Dominik Pförringer
Robotics & Cyborgs –
where is our orthopaedic future?

 Stefano A. Bini

 Katrin Kirchert

 Georg Osterhoff



 Cristiano Paggetti


12:15 Venture Pitch

Rocket start-ups in O&T
 Dominik Pförringer

12:45 Break


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

Chairs:  Katre Maasalu
 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
 Katre Maasalu

10' **Discussion**


**14:45 Session 3
Digital OR and smart implants**

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., Ph.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, Warsaw, 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


 **Kirchert, Katrin**
Cyborgs e.V.


 **Maasalu, Katre**, M.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

 **Zahn, Robert**, M.D.
Center for Musculoskeletal Surgery,
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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 Pfürringer

Location

Meliá Berlin
Friedrichstraße 103,
10117 Berlin, Germany

or via Livestream

Official Language

English, simultaneous translation will not be provided

Patronage



Organizer and Registration

Congress Compact 2C GmbH
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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

Poster submission

For information on submitting posters, please visit 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

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' is in a light teal hexagon, and the 'T' is in a dark teal hexagon. 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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