



# OT DIGITAL 2023

CONGRESS FOR DIGITALISATION IN  
ORTHOPAEDICS & TRAUMATOLOGY

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

BERLIN \* GERMANY \* HYBRID  
24.-25. NOVEMBER 2023

## NEW Congress Venue

Lohmann & Birkner  
Health Care Consulting  
Alt-Reinickendorf 25  
13407 Berlin (GER)

Google Maps

## PATRONAGE



Deutsche Gesellschaft für  
Orthopädie und Unfallchirurgie



EUROPEAN ORTHOPAEDIC  
RESEARCH SOCIETY

## INVITATION

Dear Ladies and Gentlemen,

We cordially invite you to the 2<sup>nd</sup> hybrid congress „**OTdigital - Congress for Digitalisation in Orthopaedics & Traumatology**“ in Berlin (Germany) on **24<sup>th</sup> and 25<sup>th</sup> November 2023**.

**OTdigital** is a platform for the exchange on current and future core topics of digitalisation in orthopaedics and traumatology and meant to build a scientific community to improve the use of digitalisation in our daily work.

Internationally renowned experts will present relevant aspects of current developments, trends and controversies in this field, gathered around the topics:

- mHealth, Apps & Wearables
- Training and education in mixed realities
- Digital OR & smart implants
- AI & Big Data
- Telemedicine and digital communication

with interactive focus sessions keynotes, panel discussions, breakout sessions and industry workshops and industry presentations.

Do you have ideas on how digitalisation can shape the future of orthopedics and traumatology and would like to share the results of your scientific work? Then join our poster submission on research projects in the field of „Digitalisation in Orthopaedics and Traumatology“!

Are you about to change the digital market of orthopaedics and traumatology with your start-up? Then apply for participation in our start-up pitch and get awarded as most innovative O&T start-up in 2023!

All information about the congress can be found on our website:  
<https://www.otdigital.eu>.

Looking forward to welcoming you in Berlin!

Yours



David A. Back



Koroush Kabir

# PROGRAMM OVERVIEW

Friday, 24 November 2023

10:30 Registration & Welcome coffee

12:00 Welcome & introduction

12:30 Keynote: From iFactory to iHospital - how healthcare can learn from digital transformation in the automotive industry

13:00 SESSION 1 - mHealth: Apps & Wearables

14:00 Break

14:30 SESSION 2 - AI & Big Data

15:30 Company presentations

16:30 Break

17:00 SESSION 3 - Digital training and education

18:00 Panel discussion

19:00 Summary and conclusion

19:15 Get-together

Saturday, 25 November 2023

09:00 Welcome and introduction

09:15 SESSION 4 - Telemedicine and digital communication

10:15 Keynote: Drones - their Impact on our Trauma care of tomorrow

10:45 Break

11:15 Poster Session (hybrid)

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

12:45 Break

13:45 Breakout sessions

14:45 SESSION 5 - Digital OR & smart implants

15:45 Venture pitch and digital poster presentation – award ceremony

16:00 Closure and summary

mHealth, Apps  
& Wearables

AI & Big Data

Training  
and  
education  
in mixed  
realities

Telemedicine  
and digital  
communication

Digital OR &  
smart implants

# GENERAL INFORMATION

## Meeting Dates

24. & 25.11.2023

## NEW Congress Venue

Lohmann & Birkner  
Health Care Consulting  
Alt-Reinichendorf 25  
13407 Berlin (GER)

## Congress Chairs

Prof. Dr. med.  
David Alexander Back, MBA  
Charité - Universitätsmedizin  
Berlin (GER)

PD Dr. med.  
Korosh Kabir, MBA, FACS, FEBS  
Helios University Hospital  
Wuppertal, Witten/Herdecke  
University (GER)

## Congress Secretaries

Dr. med.  
Dominik Adl Amini  
Charité - Universitätsmedizin  
Berlin (GER)

Dr. med.  
Christian Prangenberg  
University Hospital Bonn (GER)

## Start-up Pitch Host

PD Dr. med.  
Dominik Pfföringer  
Technical University of Munich  
(GER)  
Further information about the  
**Start-up Pitch** please see page  
15 of this program.

## Congress Organisation

Alexia Ploetz  
University Hospital Bonn (GER)  
Telefon +49 228 287-15582  
Fax +49 228 287-9015582  
E-Mail [info@otdigital.de](mailto:info@otdigital.de)

## Poster Submission

For further information please see  
page 15 of this program.

## Get-together

On Friday 24. November 2023, all  
participants are invited to take  
part in the get-together in the  
congress location.

## Certification

The certification of this event will  
be applied at the Medical Associa-  
tion of Berlin.

## MedTech Europe

The congress has been assessed to  
be compliant in all categories.

## Exhibition & Sponsoring

An exhibition will be held in con-  
junction with the congress.  
There are also other individual  
presentation options. Information  
can be found on the homepage,  
or please contact the congress  
organisation.

## Congress Language

The official congress  
language will be English.

## Congress Website

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

## Participation fees

|  | on site | online |
|--|---------|--------|
| Physician/Scientist/Industry*                  | 245,00  | 195,00 |
| Resident/Scientist in training                 | 145,00  | 95,00  |
| Student, Nures, other Healthcare professionals | 45,00   | 5,00   |

In the booking process, you will be also asked to select your participation in one of our  
**breakout sessions on Saturday, 25<sup>th</sup> November.**

**Please book your participation via our homepage or use the follo-  
woing link:** <https://pretix.eu/ortho-unfall-bonn/otdigital2023>

The fee includes 19% VAT, catering during the breaks and the get-together evening on Friday.  
\*not sponsors or exhibitors

## CALL FOR POSTER

Young colleagues, researchers and students are invited to submit  
abstracts about their research on digitalisation in orthopaedics and  
traumatology for our poster presentation.  
The winner of the chosen best poster will be identified in Berlin and  
will receive an award.

Please send your abstract to: [poster@otdigital.eu](mailto:poster@otdigital.eu)  
Submission deadline: 16. November 2023

## START-UP PITCH

OTdigital is dedicated to support innovative business ideas and inven-  
tions in the field of digitalisation in orthopaedics and traumatology.  
The best 6 ideas will be invited to present live in Berlin.  
The winner will be identified in Berlin by a jury hosted by  
Dominik Pfföringer and will receive an award.

Please send your abstract to: [poster@otdigital.eu](mailto:poster@otdigital.eu)  
Submission deadline: 20. November 2023



Dominik Pfföringer

10:30 Registration & Welcome coffee

12:00 **Welcome & introduction**

David Back (GER), Koroush Kabir (GER)

12:30 **Keynote**  
From iFactory to iHospital - how healthcare can learn from digital transformation in the automotive industry

Volker Richter (GER)

13:00 **SESSION 1 - mHealth: Apps & Wearables**

CHAIRS: Bernd Grimm (LUX), Inger Mechlenburg (DNK)

**Wearables for assessing upper extremity activity - Lessons learned**

Inger Mechlenburg (DNK)

**AO Smart Digital Solution task force: BYOD (bring-your-own-device) as a wearable for remote patient monitoring and clinical research: First results from a trauma cohort**

Benedikt Braun (GER)

**Patient Journey App in clinical routine: Implementation, results and lessons learned**

Frank Jonkers (NLD)

**Digital mobility metrics from wearables as trial endpoints in proximal femoral fractures: Clinical validation and regulatory approval in the Mobilise-D consortium**

Clemens Becker (GER)

Discussion

14:00 Break

14:30 **SESSION 2 - AI & Big Data**

CHAIRS: Jacobien Oosterhoff (NLD), Georg Osterhoff (GER)

**Clinical applications of AI in O&T**

Job Doornberg (NLD)

**AI-guided exercises for home Tele Monitored MSK Rehabilitation**

Marco Conti (ITA)

**Large scale RCTs in the era of big data**

Dirk Stengel (GER)

**No AI & Big Data Without Good Data - Opportunities, Challenges, and Solutions**

Martin Kasparick (GER)

Discussion

15:30 **Company presentations**

16:30 Break

17:00 **SESSION 3 - Digital training and education**

CHAIRS: Li Felländer-Tsai (SWE), Paolo Parchi (ITA)

**Patient-specific spine anthropomorphic phantoms: a possibility to bring part of the learning curve outside the surgical room**

Marina Carbone (ITA)

**Functional near infrared spectroscopy (fNIR); A new tool for testing arthroscopic skills**

Emin Aksoy (TUR)

**Augmented Reality - A new paradigm in Medical Education and Surgical Training**

Fabio Carrillo (CHE), Matthias Seibold (CHE)

**Establishing a VR education lab for O/T residents - a case report**

Łukasz Wysieński (POL)

Discussion

18:00 **Panel discussion: Academia vs. economy - who will dominate the race for digitalisation?**

19:00 **Summary and conclusion**

David Back (GER), Koroush Kabir (GER)

19:15 **Get-together** at the congress location

09:00 **Welcome & introduction**  
David Back (GER), Koroush Kabir (GER)

09:15 **SESSION 4 - Telemedicine and digital communication**  
CHAIRS: Wojciech Glinkowski (POL); Gijs Willinge (NLD)

**Review: Telerehabilitation**  
Wojciech Glinkowski (POL)

**Virtual Fracture Care: Innovating follow-up treatment in trauma care**  
Gijs Willinge (NLD)

**Use of social media in orthopaedics and traumatology - from the perspective of physicians and patients**  
Yasmin Youssef (GER)

**Brain computer Interface in motor rehabilitation rehabilitation**  
Viviana Versace (ITA)

Discussion

10:15 **Keynote**  
**Drones - their Impact on our trauma care of tomorrow**  
Peter Biberthaler (GER)

10:45 Break

11:15 **Poster session (hybrid)**  
MODERATORS: David Back (GER), Koroush Kabir (GER)

12:15 **Venture Pitch: Rocket start-ups in O&T**  
HOST: Dominik Pfürringer (GER)

12:45 B Break

13:45 **Breakout sessions**  
(booking in advance, limited number of participants per session, all 5 sessions will take place in parallel)

**The future of digital rehabilitation - how to assist our patients best**  
HOSTS: Wojciech Glinkowski (POL)

**How to establish a good AR/VR training in O&T - my experiences, tricks and pitfalls**  
HOSTS: Li Felländer-Tsai (SWE), Paolo Parchi (ITA), Łukasz Wysieński (POL)

**Robotics in the OR - what solutions can be used today?**  
HOSTS: Cristiano Paggetti (ITA)

**Use ChatGPT & other AI tools in our daily work**  
HOSTS: Jacobien Oosterhoff (NLD), Georg Osterhoff (GER)

**Wearables to monitor outcomes of Upper Extremity conditions and treatments**  
HOSTS: Bernd Grimm (LUX), Inger Mechlenburg (DNK)

14:45 **SESSION 5 - Digital OR & smart implants**  
CHAIRS: Cristiano Paggetti (ITA); Jane Walsh (IRL)

**Ongoing evolution in Digital Surgery towards surgeon's experience**  
Arnaud Clavé (FRA)

**Behavioral change factors in the adoption of digital solutions in OR**  
Jane Walsh (IRL)

**Potential future robotics applications and the role of scientific community**  
Willem van der Merve (ZAF)

**Research perspectives and challenges for Robotic Assisted Orthopedic Surgery**  
Maria Pasquini (ITA)

Discussion

15:45 **Venture pitch and digital poster presentation – award ceremony**  
HOSTS: Dominik Pfürringer (GER), David Back (GER), Koroush Kabir (GER)

16:00 **Closure and summary**  
David Back, Koroush Kabir

P-01 **INTEGRATED DATA COLLECTION FOR SHOULDER PATIENTS IN PATIENT CARE**

E. Kővári<sup>1</sup>, V. Weninger<sup>1</sup>, I. Sallai<sup>1</sup>, E. Virág-Tulassay<sup>1</sup>, B. Kovács<sup>1</sup>, A. Várnagy<sup>1</sup>, I. Antal<sup>1</sup>, G. Szőke<sup>1</sup>, G. Skaliczki<sup>1</sup>  
<sup>1</sup>Department of Orthopaedics, Semmelweis University, Budapest (HUN)

P-02 **DIGITAL HEALTH SUPPORT FOR REHABILITATION AFTER LOWER LIMB ORTHOPEDIC AND TRAUMA SURGERY IN OLDER PATIENTS: A SYSTEMATIC REVIEW AND META-ANALYSIS**

S. Ivanova<sup>1</sup>, A. Benbrih<sup>2</sup>, M. Müller<sup>3</sup>, K. Kabir<sup>4</sup>, S. Bini<sup>5</sup>, H. Baur<sup>6</sup>, M. Wilhelm<sup>7</sup>, J.D. Bastian<sup>1</sup>  
<sup>1</sup>Department of Orthopedic Surgery and Traumatology, Inselspital, Bern University Hospital, Bern (CHE); <sup>2</sup>University of Bern, Bern (CHE); <sup>3</sup>Department of Emergency Medicine, Inselspital, Bern University Hospital, University of Bern, Bern (CHE); <sup>4</sup>Department of Orthopedic Surgery and Traumatology, Helios University Hospital Wuppertal, Wuppertal (GER); <sup>5</sup>Department of Orthopedic Surgery, University of California San Francisco, San Francisco (USA); <sup>6</sup>Department of Health Professions, Bern University of Applied Sciences, Division of Physiotherapy in Bern, Bern (CHE); <sup>7</sup>Department for Rehabilitation and Sports Medicine, Inselspital, Bern University Hospital, Bern (CHE)

P-03 **HOW TO BUILD A PATIENT-SPECIFIC HYBRID SIMULATOR FOR ORTHOPAEDIC OPEN SURGERY: BENEFITS AND LIMITS OF MIXED-REALITY USING THE MICROSOFT HOLOLENS**

B. Scognamiglio<sup>1</sup>, S. Condino<sup>2,3</sup>, PD. Parchi<sup>1</sup>, N. Piolanti<sup>1</sup>, V. Ferrari<sup>2,3</sup>  
<sup>1</sup>Orthopaedic and Traumatology Division, Department of Translational Research and of New Surgical and Medical Technologies, University of Pisa, Pisa (ITA); <sup>2</sup>EndoCAS Center, Department of Translational Research and of New Surgical and Medical Technologies, University of Pisa, Pisa (ITA); <sup>3</sup>Department of Information Engineering, University of Pisa, Pisa (ITA)

P-04 **AUGMENTED REALITY TO GUIDE PERCUTANEOUS SPINE SURGERY PROCEDURES**

M. Natale<sup>1</sup>, S. Condino<sup>2</sup>, F. Cutolo<sup>2</sup>, M. Carbone<sup>2</sup>, V. Ferrari<sup>2</sup>, PD. Parchi<sup>1</sup>  
<sup>1</sup>Department of Orthopaedic and Trauma Surgery, University of Pisa, Pisa (ITA); <sup>2</sup>ENDOCAS Center, Department of Translational Research and New Technologies in Medicine and Surgery, University of Pisa, Pisa (ITA)

P-05 **AR INTERACTION PARADIGM FOR CLOSED REDUCTION OF LONG-BONE FRACTURES VIA EXTERNAL FIXATION**

G. Balestrieri<sup>1</sup>, V. Ferrari<sup>2</sup>, S. Condino<sup>2</sup>, M. Carbone<sup>3</sup>, PD. Parchi<sup>1</sup>  
<sup>1</sup>Orthopaedic Clinic, University of Pisa, Pisa (ITA); <sup>2</sup>Information Engineering Department, University of Pisa, Pisa (ITA); <sup>3</sup>ENDOCAS Center, Department of Translational Research and New Technologies in Medicine and Surgery, University of Pisa, Pisa (ITA)

P-06 **AUGMENTED REALITY FOR THE MANAGEMENT OF IMPAIRED BONE HEALING**

A. Arnegger<sup>1</sup>, F. Niemeyer<sup>1</sup>, L. Engelhardt<sup>1</sup>, C. Degenhart<sup>2</sup>, K. Schütze<sup>2</sup>  
<sup>1</sup>OSORA MEDICAL GMBH; <sup>2</sup>Department Trauma-, Hand-, and Reconstructive Surgery, Ulm University, Ulm (GER)

P-07 **THE REPAIR PROJECT "RECOMMENDATION FOR EVIDENCE-BASED PREOPERATIVE AI-CONTROLLED VIRTUAL REDUCTION AND OSTEOSYNTHESIS OF COMPLEX FRACTURES"**

N. Tuttle<sup>1</sup>, S. Hölzl<sup>1</sup>, A. Bejaoui<sup>2</sup>, H. Tzschätzsch<sup>2</sup>, M. Heyland<sup>3</sup>, F. Balzer<sup>2</sup>, G. Duda<sup>3</sup>, M. Toussaint<sup>4</sup>, T. Auer<sup>5</sup>, S. Tsitsilonis<sup>1</sup>, DA. Back<sup>1</sup>  
<sup>1</sup>Center of Musculoskeletal Surgery (CMSC), Charité - Universitätsmedizin Berlin (GER); <sup>2</sup>Institute for Medical Informatics (IMI), Charité - Universitätsmedizin Berlin (GER); <sup>3</sup>Julius-Wolff-Institute for Biomechanics and Musculoskeletal Regeneration (JWI), BERLIN (GER); <sup>4</sup>Technical University of Berlin (GER); <sup>5</sup>Department of Radiology, Charité - Universitätsmedizin Berlin (GER)

- P-08** **EVALUATING CHATGPT RESPONSES TO FREQUENTLY ASKED PATIENT QUESTIONS REGARDING PERIPROSTHETIC JOINT INFECTION AFTER TOTAL HIP AND KNEE ARTHROPLASTY**  
H. Xiaojun<sup>1,2</sup>, M. Niemann<sup>1</sup>, A. Kienzle<sup>1</sup>, K. Braun<sup>3</sup>, DA. Back<sup>1</sup>, A. Trampuz<sup>1</sup>, C. Perka<sup>1</sup>, S. Meller<sup>1</sup>  
<sup>1</sup>Center for Musculoskeletal Surgery, Charité - Universitätsmedizin Berlin, Corporate Member of Freie Universität zu Berlin, and Berlin Institute of Health, Berlin, (GER);  
<sup>2</sup>Department OF Orthopedics, Seventh's People's Hospital of Chongqing, Chongqing (CHN); <sup>3</sup>Martin Luther Krankenhaus, Berlin (GER)
- P-09** **A NOVEL COMPLETE TRAINING PROGRAM IN TOTAL HIP ARTHROPLASTY FOR ORTHOPEDIC RESIDENTS THAT INVOLVE CADAVER LAB TRAINING AND TRAINING ON PATIENTS' SPECIFIC SIMULATORS**  
PD. Parchi<sup>1</sup>, F. Falcinelli<sup>1</sup>, N. Piolanti<sup>1</sup>, E. Bonicoli<sup>1</sup>, S. Condino<sup>2</sup>, M. Carbone<sup>2</sup>, V. Ferrari<sup>2</sup>, M. Scaglione<sup>1</sup>  
<sup>1</sup>Department OF Orthopedics and Trauma Surgery, University of Pisa, Pisa (ITA); <sup>1</sup>Information Engineering Department, University of Pisa, Pisa (ITA)
- P-10** **PATIENTS-SPECIFIC SPINE SIMULATORS FOR SURGICAL TRAINING AND REHEARSAL IN PEDICLE SCREWS PLACEMENT: A NEW WAY FOR SURGICAL EDUCATION**  
M. Carbone<sup>2</sup>, S. Condino<sup>2</sup>, V. Ferrari<sup>2</sup>, M. Natale<sup>1</sup>, G. Balestieri<sup>1</sup>, PD. Parchi<sup>1</sup>  
<sup>1</sup>Orthopedic and Traumatologic Clinic University of Pisa, Pisa (ITA); <sup>2</sup>ENDOCAS Center, University of Pisa, Pisa (ITA)
- P-11** **REFERENCE VALUES FOR DAILY PHYSICAL ACTIVITY MEASURED WITH ACCELEROMETERS IN A DANISH BACKGROUND POPULATION BETWEEN 18 AND 80 YEARS OF AGE**  
C. Krogsgaard Schrøder<sup>1</sup>, L. Urup Tønning<sup>1</sup>, M. Tjur<sup>1</sup>, PK. Kristensen<sup>1</sup>, I. Mechlenburg<sup>1</sup>  
<sup>1</sup>Department of Orthopaedic Surgery, Aarhus University Hospital, Aarhus (DNK); Department of Clinical Medicine, Aarhus University, Aarhus (DNK)
- P-12** **EXPERT-LEVEL ACCRACY AND RELIABILITY OF ARTIFICIAL INTELLIGENCE FOR FULLY AUTOMATED ANALYSIS OF THE MECHANICAL ALIGNMENT OF THE LOWER EXTREMITY – RESULTS FROM A MULTI-CENTRIC VALIDATION STUDY**  
M.-C. RUPP  
Department of Orthopaedic Sports Medicine, Technical University of Munich, Munich (GER)
- P-13** **INEMATICAL DIFFERENTS BETWEEN HEALTHY AND SHOULDER-INJURED SOFTBALL PLAYERS**  
L. Bragonzoni<sup>1</sup>, S. Di Paolo<sup>1</sup>, H. Maxime<sup>2</sup>, A. Minardi<sup>1</sup>, R. Zinno<sup>1</sup>  
<sup>1</sup>Department for Life Quality Studies, University of Bologna, Bologna (ITA); <sup>2</sup>EPF Cachan School of Engineering, Cachan (FRA)
- P-14** **OPTIMIZING PATIENT INFORMATION BEFORE, DURING AND AFTER SURGERY USING A SMARTPHONE APP**  
O. Christensen<sup>1</sup>, P. Szentivanyi<sup>1</sup>, E. Goytia-Vasquez<sup>1</sup>, K. Tufberg<sup>1</sup>, M. Heijkenskjöld<sup>1</sup>, J. Ehne<sup>1</sup>, P. Landell<sup>1</sup>, L. Felländer-Tsai<sup>1</sup>  
<sup>1</sup>Department of Orthopaedics, Karolinska University Hospital, Stockholm (SWE)
- P-15** **DOES CLOTHING STYLE MATTER WHEN MEASURING PATIENTS WITH AI-DRIVEN MARKERLESS MOTION ANALYSIS?**  
M. Flood<sup>1</sup>, P. Gette<sup>1</sup>, J. Cabri<sup>2</sup>, B. Grimm<sup>1</sup>  
<sup>1</sup>Luxembourg Institute of Health (LIH), Department of Precision Health, Luxembourg (LUX); <sup>2</sup>Luxembourg Institute of Research in Orthopaedics, Sports Medicine & Science, Luxembourg (LUX)



## CHAIRS AND SPEAKERS



**Aksoy, Emin, M.D., Ph.D., Prof.**

Department of Biomedical Device Technology, Center of Advanced Simulation and Education, Acıbadem Mehmet Ali Aydınlar University, Istanbul (TUR)



**Back, David A., M.D., MBA, Prof.**

Center for Musculoskeletal Surgery Campus Virchow Klinikum, Charité – Universitätsmedizin Berlin (GER)



**Becker, Clemens, M.D., Prof.**

Department for Geriatric Rehabilitation, Robert-Bosch-Hospital, Stuttgart (GER)



**Biberthaler, Peter, M.D., Prof.**

Department of Trauma Surgery, Klinikum rechts der Isar, Technical University of Munich, Munich (GER)



**Braun, Benedikt, Dr., MBA**

Department of Trauma and Reconstructive Surgery, BG Trauma Center Tübingen, The University of Tübingen, Tübingen (GER)



**Carbone, Marina, Ph.D.**

Department of Information Engineering and EndoCAS - Department of Translational Research on New Technologies in Medicine and Surgery, University of Pisa, Pisa (ITA)



**Carrillo, Fabio, Ph.D.**

Operating Room X (OR-X), ROCS - Research in Orthopedic Computer Science, Balgrist University Hospital, Zurich (CHE)



**Clavé, Arnaud, M.D, Ph.D.**

Department of Orthopaedics and Traumatology, Saint-George Private Hospital, Nice, France and Laboratoire de Traitement de l'Information Médicale (LaTIM), Brest (FRA)



**Conti, Marco, M.D., Ph.D.,**

Shoulder and Elbow Unit, Humanitas Research Hospital, Milan (ITA)



**Doornberg, Job, M.D., Ph.D., Prof.**

Department of Orthopaedic Surgery, Data Science Center in Health, University Medical Center Groningen, Groningen (NLD)



**Felländer-Tsai, Li, M.D., Ph.D., Prof.**

Center for Advanced Medical Simulation and Training (CAMST), Karolinska Institutet & Karolinska University Hospital, Stockholm (SWE)



**Glinkowski, Wojciech, M.D., Ph.D., Prof.**

Center of Excellence "TeleOrto" for Telediagnostics and Treatment of Disorders an Injuries of the Locomotor System, Department of Medical Informatics and Telemedicine, Medical University of Warsaw, Warsaw (POL)



**Grimm, Bernd, Ph.D.**

Human Motion, Orthopaedics, Sports Medicine, Digital Methods (HOSD), Luxembourg Institute of Health, Luxembourg (LUX)



**Jonkers, Frank, M.D.**

CortoClinics, Nederweert (NL)



**Kabir, Koroush, M.D., MBA**

Department for Traumatology, Orthopaedics and Sport Medicine, Helios University Hospital Wuppertal, University of Witten/Herdecke (GER)



**Kasparick, Martin, Ph.D.**

Institute of Applied Microelectronics and Computer Engineering, University of Rostock, Rostock (GER)



**Mechlenburg, Inger, PT, MSc, Ph.D., DMSc, Prof.**

Department of Orthopaedic Surgery, Department of Clinical Medicine, Aarhus University Hospital, Aarhus (DNK)



**Oosterhoff, Jacobien H.F., M.D. Ph.D.**

Faculty of Technology Policy and Management, Delft University of Technology, Delft (NLD)



**Osterhoff, Georg, M.D.**

Department of Orthopaedics, Trauma and Reconstructive Surgery, University Hospital Leipzig, Leipzig (GER)



**Paggetti, Cristiano, Ph.D., Prof.**

School of Computing and Information Engineering, Ulster University, Ulster (GBR)



**Parchi, Paolo, M.D.**

Department of Translational Research on New Technologies in Medicine and Surgery, University of Pisa, Pisa (ITA)



**Pasquini, Maria, Ph.D.**


Department of Research & Development, Orthokey Italia S.r.l., Florence (ITA)




**Pförringer, Dominik, M.D.**


Department of Trauma Surgery, Klinikum rechts der Isar, Technical University of Munich, Munich (GER)


 **Richter, Volker, Dipl.-Ing. (RWTH Aachen),  
Adj. Prof. (QUT, Brisbane)**  
BMW Group, Head of Quality Plant Regensburg, Germany and Head  
of Integration Production Partner VDL Nedcar, Born (NDL)

 **Seibold, Matthias, Ph.D.**  
ROCS - Research in Orthopedic Computer Science,  
Balgrist University Hospital, Zurich (CHE)


 **Stengel, Dirk, M.D., Prof.**  
Centre for Clinical Research, Department of Trauma and Orthopaedic  
Surgery, Unfallkrankenhaus Berlin, Berlin (GER)


 **van der Merve, Willem M., M.D.**  
Department of Orthopaedics, South African Institute of Sports Science,  
Cape Town (ZAF)

 **Versace, Viviana, M.D.**  
Department of Neurorehabilitation, Hospital of Vipiteno (SABES-AS-  
DAA), Vipiteno-Sterzing (ITA), Paracelsus Medical Private University,  
Salzburg (AUT)

 **Walsh, Jane, Ph.D., Prof.**  
Mobile Technology and Health (mHealth) Research Group, School of  
Psychology, University of Galway, Galway (IRA)

 **Willinge, Gijts J.A., M.D.**  
Department of Trauma Surgery, OLVG Hospital, Amsterdam (NLD)

 **Wysiński, Łukasz, M.D., Prof.**  
Collegium Anatomicum, Kazimierz Pulaski University of Technology  
and Humanities, Radom (POL)

 **Youssef, Jasmin**  
Department of Orthopaedics, Trauma and Reconstructive Surgery,  
University Hospital Leipzig, Leipzig (GER)

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