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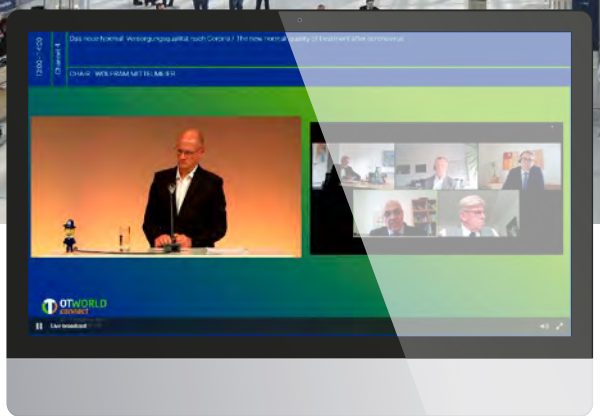
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FEE-BASED PROGRAMME

SCIENTIFIC WORLD CONGRESS



page 2

[GO TO TICKET SHOP](#)



[GO TO REGISTRATION](#)



FREE OF CHARGE PROGRAMME

SECTOR-POLITICAL FORUM



page 13

OTWORLD INDUSTRY WORKSHOPS



page 14

OTWORLD INNOVATION SHOWROOMS



page 16

SCIENTIFIC EPOSTER



page 17

[GO TO REGISTRATION](#)



<https://connect.ot-world.com/en/>

SCIENTIFIC WORLD CONGRESS

27 OCTOBER 2020

09:30 – 10:30 SYMPOSIUM | PROSTHETICS / CHIRURGIE



Channel 1 **The impact of emerging technologies in prosthetics and microsurgery on amputee care**

Chair: Frank Braatz

- A new method of collecting data on hand anthropometry for the design of multi-articulating hand prostheses
Heinz-Herbert Homann
 - Osseointegration – first experience
Frank Braatz
 - Osseointegration and its future possibilities
Rickard Brånemark
-

10:15 – 11:15 FREE PAPER | ORTHOTICS



Channel 2 **Orthotics**

Chair: Jürgen Götz, Ingo Pfefferkorn

- A Review of 3-D Ultrasound Application in the Process of Screening, Evaluation and Orthotic Treatment of Patients with Adolescent Idiopathic Scoliosis
Babak Hassan Beygi
 - The electronic aid to counteract the occurrence of spastic movements
Maximilian Moyé
 - Do persons with chronic stroke benefit from using the microprocessor stance and swing control orthosis C-Brace?
Andreas Kannenberg
 - Patient reported outcomes with a novel microprocessor-controlled knee-ankle-foot-orthosis
Mike McGrath
 - Accompanying diagnoses that influence the outcome of corset treatment in adolescent scoliosis
Franz Landauer
-

10:45 – 11:45 SYMPOSIUM | PROSTHETICS



Channel 1 **The short residual limb in the upper and lower extremities**

Chair: Bernd Sibbel, Patrick Schröter

- Special aspects of fitting a short residual lower leg
Robert Helbing
 - The short and ultra-short residual forearm – a challenge
Wolfgang Gröpel
 - The short residual thigh and its challenges
Olaf Gawron
 - Special aspects of fitting a short residual upper arm
Boris Bertram
-



27 OCTOBER 2020

12:00–12:45 SYMPOSIUM | EDUCATION

**Channel 1** Education in change – integration of new technologies

Chair: Axel Sigmund, Lars Grun

- Education and innovation in P&O in Belgium – specific examples from Thomas More University of Applied Sciences
Xavier Bertelee, Veerle Creyelman
- Education in change – integration of new technologies
Saeed Zahedi
- Digital orthopaedic technology in further and advanced training
Lars Grun

11:45–12:45 FREE PAPER | OPEN TOPICS

**Channel 2** Open Topics

Chair: David Hochmann, Jennifer Ernst

- Getting started in additive manufacturing in the field of silicone technology
Teresa Kempf
- SIGMA3D – simulation-assisted med-tech platform for providing custom 3D-printed devices
David Hochmann
- Development of a CAE-assisted process for combining additive manufacturing with textiles for customised orthopaedic devices
Dustin Ahrendt
- FEM model for pressure testing according to DIN EN 12568 for steel caps in safety shoes
Nicole Dirksen

13:00–14:00 COURSE | PROSTHETICS / CHIRURGIE

**Channel 2** Lower leg amputations and prosthetic devices

Chair: Bernhard Greitemann

- What are the requirements for good surgical treatment of the residual limb?
Bernhard Greitemann
- Problems in the treatment of transtibial residual limbs from the surgeon's perspective
Patrick Schröter
- Alternative socket systems, when to use which socket?
Matthias Bauche

SCIENTIFIC WORLD CONGRESS

27 OCTOBER 2020

16:00–17:00 GLOBAL INTERDISCIPLINARY LEADERS | PROSTHETICS



Channel 1 **Advanced upper limb prosthetics**

Chair: John Miguelez, Michael Schäfer

- A prosthetist's perspective on best practices in interdisciplinary treatment of upper limb amputees
John Miguelez
 - A physician's perspective on best practices in interdisciplinary treatment of upper limb amputees
Danielle Melton
 - A therapist's perspective on training and outcome measures to facilitate success for upper limb amputees
Kerstin Baun
-

16:00–17:00 SATELLITE-SYMPOSIUM | PROSTHETICS



Channel 2 **Transfemoral socket design in the US and Germany: What is state of the art?**

Chair: Merkur Alimusaj, Brian Kaluf

- Trends in transfemoral socket techniques and research evidence in the US
Brian Kaluf
 - Biomechanical background and issues in TF-Prosthetics
Merkur Alimusaj
 - NU FlexSIV sub-ischial socket techniques and research results
Ryan Caldwell
 - Current clinical socket standards in transfemoral prostheses in Germany
Tobias Kuhn
 - Biomechanical evaluation of brimless versus ischial containment socket designs: do we need a brim?
Malte Bellmann
-



28 OCTOBER 2020

09:00–10:00 COURSE | DIGITALIZATION

**Channel 1** **Digital methods for capturing shapes**

Chair: Norbert Stockmann, Thomas Mitzenheim

- Fabricating seating shells using CAD/CAM technology
Thomas Mitzenheim
- Experience report on a 3D printed silicone liner
Michael Hofer
- Creating a functional shape in (limb) orthotics using digital methods
Steffen Matyssek

09:00–10:00 FREE PAPER | BIOMECHANICS

**Channel 2** **Biomechanics**

Chair: Daniel Heitzmann, Philipp Bergschmidt

- 3D-SPA – checking the prosthetic alignment in scientific studies
Sebastian Wolf
- A clinical algorithm for sagittal plane kinematic optimization of articulated ankle foot orthoses
Beatrice Janka
- Effects of cross-slopes on the gait of transtibial amputees
Björn Altenburg
- Does microprocessor controlled knee movement influence common activities of daily living when using a knee-ankle-foot orthosis?
Cleveland Barnett
- Analysis and simulation of the main support options for ascending stairs
Max Böhme

10:15–10:45 INTERACTIVE FORMAT | MANUFACTURING TECHNOLOGY

**Channel 2** **Digital design in orthopaedic technology / orthopaedic footwear technology**

Chair: Michael Volkery, Frank Naumann

- Which scanner for what?
Antonius Köster
- Pioneering Industry 4.0 orthotic system
Fion Cracknell
- Discover the possibilities – Solutions from digital prosthetics
Frank Naumann

SCIENTIFIC WORLD CONGRESS

28 OCTOBER 2020

10:15 – 11:15 SYMPOSIUM I ORTHOPAEDIC SHOE TECHNIQUE



Channel 1 **Conservative treatment in orthopaedic footwear technology**

Chair: Martin Engelhardt, Bernhard Greitemann

- The diabetic foot syndrome and its treatment guidelines
Tymoteusz Budny
- Treatment matrix for pes planovalgus
Ulrich Hafkemeyer
- Treatment matrix for pes equinus
Tino Sprekelmeyer

11:15 – 12:15 SYMPOSIUM I PROSTHETICS / CHIRURGIE



Channel 2 **Function-enhancing approaches in prosthetic treatment**

Chair: Michael Schäfer, Urs Schneider

- Hybrid control strategies
Michael Goldfarb
- Neural control in osseointegrated upper limb prostheses
Rickard Brånemark

11:30 – 12:30 FREE PAPER I REHABILITATION



Channel 1 **Rehabilitation**

Chair: Stefan Middeldorf, Ludger Lastring

- Use of orthoses to provide relief following meniscus repair in the context of post-operative rehabilitation – an expert consensus
Axel Schulz
- A passive exoskeleton for overhead work: Description of user benefits on the basis of biomechanical and metabolic parameters
Thomas Schmalz
- Evaluation of usability of passive exoskeletons on the work floor: a step-by-step plan for mapping between exoskeleton, employee and performed task
Eveline De Raeve
- The fibroblast in the “field of tension” of mobilisation via physiotherapy – presentation of a treatment concept and a pilot study
Thomas Koller
- Multiple sclerosis – contemporary approaches to therapy, training and everyday life
Thorsten Böing

13:30 – 14:30 SYMPOSIUM I PAEDIATRIC ORTHOPAEDICS / PAEDIATRIC TREATMENT



Channel 1 **Pediatric neuroorthopaedics**

Chair: Merkur Alimusaj, Frank Braatz

- Pediatric neurological foot deformities and functional deficits
Leonhard Döderlein
- FES for ICP – Outcome measures and biomechanical effects over time
Julia Block
- Treatment paths in neuro-orthotics
Merkur Alimusaj



28 OCTOBER 2020

13:30–14:30 FACTORY TALK | PROSTHETICS

**Channel 2** **Prosthetic treatment – past, present and future**

Chair: Ralph Bethmann

- Specialist knowledge vs. habit – patient care and the related obstacles
Robert Helbing
- Custom socket design for OEX dysmelia prosthesis
Ingo Pfeiffer

13:30–14:30 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION

**Channel 3** **TAR Conference:****Opening Speech and Session Assistive Technologies and Prosthetics**

Chair: Rupp Rüdiger, Malte Bellmann, Marc Kraft

- Effects on ankle power and sound limb load with an active prosthetic foot
Eva Pröbsting
- Socket design and socket adduction – How ischium or ramus containment and prosthetic alignment help reducing upper body compensatory movements
Malte Bellmann
- Reduction of back injuries in caregivers using collaborative robotics: Requirement analysis and concept design
Maximilian Siebert
- Designing a tangible solution to encourage playful hand usage for children with cerebral palsy
Christina Mittag

14:45–15:15 KEYNOTE LECTURE | TECHNICALLY ASSISTIVE REHABILITATION

**Channel 3** **TAR Conference:****The quest for a bionic hand – recent achievements and future perspectives**

Silvestro Micera

15:30–16:30 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION

**Channel 3** **TAR Conference: Rehabilitation robotics and orthotics**

Chair: Catherine Disselhorst-Klug, David Hochmann

- Design of a 3D-printed hybrid mechanical structure of a hand exoskeleton for stroke survivors to facilitate donning and doffing
Jens Vertongen
- Knee joint osteoarthritis: Evaluation of the effect of different orthotic treatment concepts
Thomas Schmalz
- Development and testing of an artificial multi-layer soft-tissue model for the testing of orthopaedic devices
Steven Mücke
- Long-term changes in technology acceptance of a robotic system in stroke treatment: A pilot study
Natalie Jankowski

SCIENTIFIC WORLD CONGRESS

28 OCTOBER 2020

16:00 – 16:45 KEYNOTE LECTURE | PROSTHETICS



Channel 1 **Trends in lower limb prosthetics research:
Enhancing adaptability through powered and semi-powered devices**
Michael Goldfarb

16:00 – 17:00 SATELLITE-SYMPOSIUM | RESEARCH



Channel 2 **Assessments, documentation and clinical sciences for research alongside
routine care**

Chair: Merkur Alimusaj, Brian Kaluf

- Creating evidence during daily work: A prosthetic registry
Merkur Alimusaj
 - Assessment tools for prosthetics and orthotics
Urban Daub
 - Balancing patient care needs and research demands
Ryan Caldwell
 - Strategies for conducting research in a small practice setting
Brian Kaluf
-



29 OCTOBER 2020

09:00 – 10:00 SATELLITE-SYMPOSIUM | FOOT AND SHOE



Channel 2 **A comprehensive approach for the ankle – foot surgery meets technical orthopaedics**

Chair: Hartmut Stinus, Markus Walther

- Ligament and cartilage injuries in the upper ankle
Hartmut Stinus
- Fractures and the treatment of the upper ankle
Christopher Spering
- Osteoarthritis of the upper ankle joint – treatment option consisting of osteotomy, arthrodesis, prosthesis for upper ankle joint
Markus Walther
- Technical-orthopaedic solutions after upper ankle surgery
Michael Möller

09:00 – 10:00 COURSE | PROSTHETICS / CHIRURGIE



Channel 1 **Wound coverage and requirements for prosthetic treatment**

Chair: Michael Steen, Bernhard Greitemann

- Indication for small dermoplasties and flap plasties
Kim Glapa
- Flap plasties for the diabetic foot
Dirk Theodor Schraeder
- Larger repositioned flaps, vascularised flaps, latissimus transfer
Michael Steen

10:15 – 11:00 KEYNOTE LECTURE | OPEN TOPICS



Channel 1 **Participation, accessibility and inclusion**

Raúl Aguayo-Krauthausen

11:00 – 12:00 COURSE | DIGITALIZATION



Channel 2 **Digital workshop processes – the paperless workshop**

Chair: Ingo Pfefferkorn, Roland Dötzer

- Using digital approaches to turn a plaster model into a workpiece
Marc Damerau
- Digital documentation in P&O – duty or choice in treatment
Christian Hartz
- Fabricating custom devices using digitally supported production processes
Peter Zender

SCIENTIFIC WORLD CONGRESS

29 OCTOBER 2020

11:15 – 12:15 FREE PAPER | ORTHOTICS



Channel 1

Orthotics lower extremities

Chair: Ludger Lastring, Frank Braatz

- Orthoses in the context of treating knee osteoarthritis – biomechanical effect of combining an AFO and a low arch and flatfoot insole
Thomas Schmalz
- How effective is a passive dynamic ankle foot orthosis (PD AFO) at improving patient reported outcomes measures in injured military personnel?
Mike McGrath
- Conservative treatment for knee osteoarthritis – comparison of an ankle foot orthosis and a laterally wedged insole
Leonie P. Bartsch
- Patient compliance – what's important to knee osteoarthritis patients when selecting orthoses to relieve their symptoms? A multi-centre-study
Jana Rogoschin
- Interim 6-months results from a registry of a microprocessor stance and swing control knee ankle foot orthosis
Russ Lundstrom

12:15 – 13:15 SALELLITE-SYMPOSIUM | REHABILITATION



Channel 2

Rehabilitation in sports

Chair: Martin Engelhardt, Christoph Lutter

- Rehabilitation after an ACL injury from a medical perspective
Casper Grim
- Rehabilitation after an ACL injury from a therapeutic perspective
Jürgen Freiwald
- Return to sports – test methods
Matthias W. Hoppe
- Devices in sports – what really works?
Christoph Lutter
- Rehabilitation in sports for people with disabilities
Bernhard Greitemann

12:30 – 13:15 INTERACTIVE FORMAT | EDUCATION



Channel 1

Education standards

Chair: Claude Tardif

- Prosthetic orthotic education standards
Helen Cochrane
- Global educators meetings
Mary Scott
- E-learning
Christian Schlierf
- Wheelchair
Claude Tardif



29 OCTOBER 2020

13:15 – 13:45 KEYNOTE LECTURE | TECHNICALLY ASSISTIVE REHABILITATION



Channel 3 **TAR Conference:**
Targeted Muscle Reinnervation (TMR)
 Oskar Aszmann

13:30 – 14:30 SYMPOSIUM | DIGITALIZATION

**Channel 1** **Digital concepts from practice for practice**

Chair: Christian Kienzle, Michael Möller

- Correction simulation as key to the implementation of digital concepts in orthotics
Christian Kienzle
- Direct digital manufacturing in patient-specific O&P products
Jiri Rosicky
- Parametric design can facilitate the design of 3D printed bespoke aids for daily living
Veerle Creylman

13:30 – 14:30 FACTORY TALK | ORTHOTICS

**Channel 2** **Orthotic treatment – past, present and future**

Chair: Franz Landauer

- Looking to the past as a guide for the future
Franz Landauer
- Current technical developments in orthotic treatment
Hannes Stabauer, Alois Rettensteiner
- Current medical influences on orthotic treatment in hospitals
Merkur Alimusaj
- The future in the workshops from the perspective of “Young ISPO Austria”
Alexander Pirnbacher, Anna Biedermann

14:00 – 15:00 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION



Channel 3 **TAR Conference:**
Innovation clusters INOPRO and INTAKT

Chair: Michael Friedrich Russold, Roman Ruff

- A multi-channel implantable system to restore natural sensory feed-back in amputees
Patrick Kiele
- Intermuscular coupling analysis during upright standing after a uni-lateral transfemoral amputation
Christian Pasluosta
- Interactive implants in a network – the innovation cluster INTAKT
Roman Ruff
- Electrical stimulation of five parts of the gastrointestinal tract: Preclinical study
Karen Stumm



29 OCTOBER 2020

14:45 – 15:45 SYMPOSIUM | REHABILITATION 

Channel 2 **New approaches in rehabilitation**

Chair: Stefan Simmel, Stefan Middeldorf

- Digitalisation in rehabilitation – the MEDIAN app
Johannes Schröter
 - Patient-centred telerehabilitation (PACT): the role of conventional and digital mirror therapy in the treatment of phantom pain after an amputation
Andreas Rothgangel
 - Tele-prevention with the Employer's Liability Insurance Association (VBG)
Frank Merten
 - Using new types of training in rehabilitation – EMS training
Frank Mooren
-

15:00 – 15:30 KEYNOTE LECTURE | TECHNICALLY ASSISTIVE REHABILITATION 

Channel 3 **TAR Conference: Towards a long-term communication with the brain in the blind – challenges and future prospects**

Eduardo Fernández Jover

16:00 – 17:00 SYMPOSIUM | PROSTHETICS / CHIRURGIE 

Channel 2 **Osseointegration**

Chair: Matthias Bauche, Michael Schäfer

- Osseointegration and extended man-machine-interfaces
Rickard Brånemark
 - About transcutaneous, osseointegrated prosthetic systems (TOPS) – 20 years of experience with Endo-Exo-Prostheses for rehabilitation following limb amputation
Horst-Heinrich Aschoff
-

16:00 – 17:00 SYMPOSIUM | TECHNICALLY ASSISTIVE REHABILITATION 

Channel 3 **TAR Conference:
Human technology interaction**

Chair: Frank Braatz, Thomas Seel

- Comparative study on the effectiveness of an electric versus conventional rollator during rehabilitation of apoplectic stroke patients
Franziska Knaack
 - Wireless retina implant with optical energy supply
Thomas Velten
 - Comparison of six different marker sets to analyze knee kinematics and kinetics during landings
Annette Kerkhoff
 - Validation method for body-mounted sensor attachments
Katharina Schmidt
-

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SECTOR- POLITICAL FORUM

27 OCTOBER 2020

13:00–14:00 PANEL DISCUSSION



Channel 4 **The new normal: quality of treatment after coronavirus**

28 OCTOBER 2020

14:45–15:45 PANEL DISCUSSION



Channel 4 **The MDR is on its way – is the industry ready for it?**

17:15–18:00 LIVE-STUDIO



Channel 4 **First coronavirus, then the MDR**

29 OCTOBER 2020

08:00–08:30 LIVE-STUDIO



Channel 4 **Challenges and solutions in the time with Corona**

14:45–15:45 PANEL DISCUSSION



Channel 4 **Global focus: International treatment quality – the coronavirus crisis and other challenges**

17:15–18:00 LIVE-STUDIO



Channel 4 **Stay connected! OTWorld in a loop**

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OTWORLD INDUSTRY WORKSHOPS

27 OCTOBER 2020

09:00 – 09:30 **Thera-Go – Functional therapeutic orthotics range**

Channel 5

Pedro Araújo, ORLIMAN S.L.U.



11:00 – 11:30 **Introducing Adam's Hand: The World's First Fully Adaptive Bionic Hand**

Channel 6

Giovanni Antonio Zappatore, BIONIT LABS S.R.L.



14:00 – 14:30 **Introducing Zeus – the strongest bionic limb**

Channel 6

Dhruv Agrawal, Aether Biomedical Sp. z o.o



15:00 – 15:30 **Creating Customized 3D Printed Thumb Braces Using a Digital Workflow**

Channel 5

Arne Mertens, Twikit NV; Gabi Janssen, DSM Additive Manufacturing



15:00 – 15:30 **Rehabilitation robotics: The Inail experience**

Channel 6

Emanuele Gruppioni, Alberto Dellacasa Bellingegni, Centro Protesi INAIL



17:00 – 17:30 **Lessons learned after creating thousands of fitting (and non-fitting) 3D printed orthotics – turning nice-to-have 3D technology into a clinical-validated orthoses development workflow (+ live demo of Spentys solution)**

Channel 6

Louis-Philippe Broze, Spentys NV










17:30 – 18:00 **Self-Management – the core of lymphoedemic treatment**

Channel 5

Slawomir Pyszniak, THUASNE DEUTSCHLAND GmbH



**28 OCTOBER 2020**

-
- 09:00 – 09:30** **Criteria and Method for the selection of the prosthetic liners in accordance with the patient clinical conditions and lifestyle.** 
Channel 6 Giulia Serio, ALPS SOUTH EUROPE s.r.o.
-
- 14:00 – 14:30** **How TwikFit supports Orthobroker to tap into the digital transformation by enabling the easy production of custom-fit 3D printed orthotic products** 
Channel 5 Kaj Sennelöv, Twikit NV; Roel Van Stiphout, Orthobroker
-
- 15:00 – 15:30** **High-Strength, Novel Prosthetic Intervention for Partial Hand and Finger Amputees** 
Channel 5 Drew Leininger, RCM Enterprices LLC dba Naked Prosthetics
-
- 16:00 – 16:30** **Digitalizing the O&P 3D capture and measuring process! More accessible than ever!** 
Channel 5 Michel Babin, TechMed 3D Inc.
-
- 16:00 – 16:30** **Challenging patients with knee OA from biomechanical engineer perspective** 
Channel 6 Gary Bledsoe, Breg, Inc.
-
- 16:30 – 17:00** **Breg Capture – Digital Measurement Preview** 
Channel 6 Samer Moussa, Breg, Inc.
-
- 17:30 – 18:00** **Sprystep flex: Walk, marathon, hike, dunk, tackle!** 
Channel 2 Maximising potential with composite AFOs
Dave Buchanan, THUASNE DEUTSCHLAND GmbH

29 OCTOBER 2020

-
- 11:00 – 11:30** **Process flexibility with the most advanced 7-AXIS ROBOTIC CARVER and SOFTWARE for custom orthoses manufacturing** 
Channel 6 Raffaele D'Achille, Frédéric Desprez, ROBOTICOM – Fabbrica Machinale S.r.l.
-
- 16:00 – 16:30** **Introduction of the TwikFit software platform, enabling the production of made-to-fit orthotics through 3D-printing** 
Channel 6 Arno Vandenschrieck, Twikit NV
-
- 17:00 – 17:30** **How CAD/CAM adoption can grow your business, help more patients and provide enhanced patient care** 
Channel 6 Michael Elder, VORUM Research Corporation
-
- 17:30 – 18:00** **Patients with knee OA in the Covid crisis: The non-pharmacological approach** 
Channel 5 Will Cox, THUASNE DEUTSCHLAND GmbH

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acriba Service GmbH	Germany
Aether Biomedical Sp. z o.o.	Poland
ALPS SOUTH EUROPE s.r.o.	Czech Republic
Antonius Köster GmbH & Co. KG	Germany
Bauerfeind AG	Germany
Berufsgenossenschaft Energie Textil Elektro Medienerzeugnisse	Germany
BIONIT LABS S.R.L.	Italy
Blatchford Europe GmbH	Germany
Breg, Inc.	USA
Bundesfachschule für Orthopädie-Technik e.V.	Germany
Bundesinnungsverband für Orthopädie-Technik	Germany
Centro Protesi INAIL	Italy
Confairmed GmbH	Germany
Covvi Ltd	UK
DARCO (Europe) GmbH	Germany
Dartfish Germany GmbH	Germany
DJO (ORMED GmbH)	Germany
Dorset Orthopaedic Company Ltd.	UK
DZH Dienstleistungszentrale für Heil- und Hilfsmittelanbieter GmbH	Germany
Fabrica Machinale S.r.l.	Italy
GHiWell Co., Ltd.	Korea
Group of companies METIZ	Russia
Heinrich Caroli GmbH	Germany
Integrum AB	Sweden
ISPO International Society for Prosthetics and Orthotics	Denmark

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Michael Martin GmbH & Co. KG	Germany
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NOVENTI HealthCare GmbH	Germany
NOWECOR AG	Germany
opta data Abrechnungs GmbH	Germany
Optica Abrechnungszentrum Dr. Güldener GmbH	Germany
ORLIMAN S.L.U.	Spain
Orthobroker bvba	Belgium
ORTHOSCOOT GmbH	Germany
ORTOPEDIJOS TECHNIKA AB	Lithuania
OTOS d.o.o.	Croatia
Ottobock SE & Co. KGaA	Germany
pead software GmbH	Germany
RCM Enterprices LLC dba Naked Prosthetics	USA
Spentys NV	Belgium
Sporlastic GmbH	Germany
ST&G Corporation	Korea
Streifeneder ortho. production GmbH	Germany
Taska Prosthetics Limited	New Zealand
TechMed 3D Inc.	Canada
THUASNE Germany GmbH	Germany
Twikit NV	Belgium
Verlag Orthopädie-Technik	Germany
VORUM Research Corporation	Canada
Wagner Polymertechnik GmbH	Germany

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POSTER PRESENTATIONS – PROSTHETICS

Analysis of patient-reported musculoskeletal pain with use of a powered ankle-foot component	UK
Improvements in health-related user outcomes with microprocessor feet	UK
Microprocessor knees for bilateral amputees	UK
Clinical predictors for improvement in outcomes after lower limb prosthetic fittings	UK
Are mobility-related outcome measures affected by varying combinations of prosthetic componentry?	UK
The role of the stump muscles in prosthesis control: a new measurement protocol to investigate stump muscles activity during walking	UK
The effect of socket movement on limb health	UK
Effect of elevated vacuum pressure during inactivity on residual limb circulation	UK
Effects of weight bearing in a negative pressure environment on residual limb tissue oxygenation	UK
Pressure measurements in prosthetic sockets of transfemoral amputees during ambulation and the relationship with socket fit: A systematic review	UK
Analysis of sensitivity and correlation of selected self-reported clinical outcomes in lower-limb prosthetic application based on real world data	UK
The future of prosthetics: affordable, 3D-printed, multi-grip myoelectric prostheses for children	UK
Prospects for the use of additive technologies in prosthetics of patients with amputation defects at the lower limb	UK
Prosthesis satisfaction in lower limb amputees, a systematic review of associated factors and questionnaires	UK
Investigating clinical outcomes of trans-femoral interface (socket) fabrication using a novel direct lamination method	UK

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SCIENTIFIC EPOSTERS

POSTER PRESENTATIONS – ORTHOTICS

Active ankle-foot-orthosis for ALS rehabilitation



Active spine brace



New design of Knee-Ankle-Foot-Orthosis with controlling dorsiflexion in needed range of motion in patients with drop-foot



Design and analysis of an original powered foot clearance creator mechanism for walking in patients with spinal cord injury



POSTER PRESENTATION – REHABILITATION TECHNOLOGY

An innovative modular postural padding system for hippotherapy: HIPPO MB – From the first idea to practical realization



POSTER PRESENTATION – OPEN TOPICS

Digital transformation and 3D printing in lower extremity prosthetic solution – a new approach for low middle income countries



POSTER PRESENTATIONS – PEDRIATIC TREATMENT

Effectiveness after 2 years of braces designed with CAD/CAM and simulations in adolescent idiopathic scoliosis – a randomized controlled trial



POSTER PRESENTATIONS – REHABILITATION

Motor skills improvement evaluation of cerebral palsy child with lower limbs spasticity by application of variable abduction hip orthosis



Ambulant prehabilitation and rehabilitation of a patient with a transcutaneous osseointegrated prosthesis system (TOPS) of the left femoral





TAR CONFERENCE: TAR E-POSTER PRESENTATION

Design of a surface electromyography sensor system for attuning the support by robotic assistance in stroke rehabilitation	
Predicting exoskeleton support torques based on human lifting motions using optimal control	
Mechanical characterization of the adaptability of prosthetic feet in the frontal plane	
Comprehensive development, implementation and evaluation of industrial exoskeletons	
INTAKT microimplants for grasp restoration in people with high spinal cord injury	
Experimental stimulation platform for electrophysiological applications and interactive implants	
Advances in electrical stimulation-based therapy for tinnitus	
BrailleRing: A flexible braille display with the potential to be easy-to-clean by its users	
Motion classification for a passive lower limb exoskeleton based on derived features	
Camera-based climbing analysis for a therapeutic training system	
The REX Bionics lower limb exoskeleton can improve function and levels of independence and is an acceptable treatment modality to patients with neurological conditions	
Perturbation-based robotic balance training during walking after stroke: Preliminary results of a pilot randomized control trial	
Rehabilitation robots in the german healthcare sector: Added value and experience	
Actuated ankle exoskeleton for children with crouch gait	
Developing a socially assistive robot that matches the needs and expectations of older adults with MCI and their caregivers	
A musculoskeletal model for individualized neuromuscular training and rehabilitation on a robotic resistive exercise device	



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