International VDI Conference 2018

**Industrial Wearables & Devices**

AR/VR Applications and Technologies

February 20 – 21, 2018, Munich, Germany

- Potentials and Implementation of Wearables and other Devices
- Opportunities for the Optimization of Workflows: Safety, Efficiency and Training
- Wearables and Devices in different Industries: Best Practice Examples and Use Cases
- Data Collection and Data Security

Meet international experts from:

AIRBUS  ·  DAQRI  ·  INTEXAR  ·  iTIZZI MO  ·  LEE & THOMPSON

MHP  ·  Rolls-Royce  ·  Life Is On  ·  Schneider Electric  ·  TeamViewer

thyssenkrupp  ·  TRIVISO  ·  UBI MAX  ·  UP SKILL  ·  VR/AR ASSOCIATION

An event organized by VDI Wissensforum GmbH

www.vdi-international.com/wearables
About us

The Association of German Engineers (VDI) is one of the largest technical-scientific associations in Europe. Throughout the years, the VDI has successfully expanded its activities nationally and internationally to foster and impart knowledge about technology-related issues. As a financially independent, politically unaffiliated and non-profit organization the VDI is recognized as the key representative of engineers both within the profession and in public.

Expected Participants according to Functions

Expected Participants according to Industries

- Aviation
- Consulting
- Automotive
- Maintenance
- Technology Solution Providers
08:30   Registration & welcome coffee

10:00   Chairs welcome and opening address
Conference chairs:
Prof. Dr. Maic Masuch, University of Duisburg-Essen, Germany
Christopher Bouveret, iTiZZiMo AG, Germany

10:15   The Digital Factory – Generate Value within production by leveraging
AR Technologies and Wearables
Christopher Bouveret, Chief Innovation Officer, iTiZZiMo AG, Germany

I. Context of Augmented Reality, Virtual Reality and Mixed Reality

10:45   Upskilling the Industry 4.0 Workforce with Augmented Reality
Jay Kim, Chief Product Officer, Upskill, USA

11:15   The Future of Virtual Reality and Augmented Reality
Steve Dann, Co-President, VR/AR Association, UK

11:45   Virtual Reality and Augmented Reality – Legal Issues, Challenges and
Opportunities
Julian Ward, Head of Digital and Videogames, Lee & Thompson LLP, UK

12:15   Lunch
## II. Potentials and Challenges: How to implement Wearable Technologies in your Business

**13:45** Smart Glasses Use Cases and Experiences in different Industries and Markets
- Current status wearable technologies
- Successful industries examples and use cases
- How to implement successful wearable projects

*Dipl.-Ing. Gerhard Pluppins, MBA*, Business Development Manager, Ubimax GmbH, Germany

**14:15** Head Mounted Display digital Platform for the Industry
- Academical market
- B2B tailor made solutions
- Digital platform

*Dipl.-Kaufm. Gerrit Spaas*, Managing Director, Lux Prototyping S.A.R.L., Luxembourg

**14:45** Assisted Reality Today – Augmented Reality Tomorrow
- Differences of Assisted Reality versus Augmented Reality
- Barriers and limitations of Augmented Reality
- Improving performance by using assisted reality – industrial case studies
- Inflection point of Augmented Reality: scalability and its impact on Industry 4.0
- First steps into Assisted Reality – Futureproofing organizations for the “AR tsunami”

*Patrick Johnson, M.A.*, Co-Founder, Rock Paper Reality, USA

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### 15:15 Networking & coffee break

### 15:45 Mixed Reality and the Threshold for industrial Maturity
- Hardware driven use cases
- Automotive Industry: POCs, pilots, productive usage
- Examples, examples, examples

*Stefanie Kaiser*, Mixed Reality Expert, co-author: Dr. Oliver Kelkar, Head of Market Intelligence & Innovation, both: MHP – A Porsche Company, Germany

### 16:15 End of conference day one

### 18:00 Evening Reception
At the end of the first conference day we kindly invite you to use the relaxed and informal atmosphere for in-depth conversations with other participants and speakers.
09:00  Making Smart Garments easy to design, manufacture, wash and wear
• Challenges in smart garments
• Summary of smart clothing technologies
• Advantages of electronic ink in stretch and recovery, wash, wear and manufacturing
Dr. Srijanani Bhaskar, Business Development Manager, co-author: Michael Burrows, both: DuPont, USA

09:30  GAMEFUL DESIGN – What we can learn from Entertainment Technology
• Games shape expectations how we interact with virtual environments
• Understanding how digital games work
• Transferring concepts from entertainment computing to the industry
• User experience in VR – power and problems
Prof. Dr. Maic Masuch, Head of Department of Media and Computer Science, University of Duisburg-Essen, Germany

III. Best Practice Examples and Use Cases

10:00  Augmented Reality for Operation, Service and Maintenance
• Innovative augmented reality tool for machine diagnostics and maintenance
• Co-operation with machine status and live-data
• Reduction of maintenance and service time
• Virtual view into operating machines
Dipl.-Ing. Christian Arhelger, Offer Manager HMI/iPC and IIOT, Schneider Electric GmbH, Germany

10:30  Networking & coffee break

11:00  How Wearables can go beyond in transforming Customer Experiences
• Benefits of wearables in enhancing established processes
• Implementation challenges – From software to retraining of personnel
• Transformation in the customer experience and overall business impact
Simon Feismann, Head of Product Lifecycle Management, thyssenkrupp Access Solutions, Germany

11:30  Professional Grade Augmented Reality at Work in Manufacturing – Key Use Cases and Technologies
• Overview of key manufacturing use cases: Inspection, maintenance, work instructions and remote expert
• AR solutions to support these use cases
• Implementation roadmaps to deploy these solutions
• Challenges and next steps
Dr. Paul Sweeney, Vice President and General Manager, DAQRI Intl., Ireland

12:00  VR/AR in the Field of Cabin Development
• Engineering analyses with VR/AR
• VR/AR in the cabin definition process
• Support of marketing and sales campaigns
Dipl.-Ing. Dieter Kasch, Development Engineer, Airbus Operation GmbH, Germany

12:30  Lunch

13:30  Using Industry 4.0 Connected Worker Platforms to improve industrial Safety
• Legislation driving improvement to health and safety standards
• The benefits of connecting workers in real-time to each other and control rooms
• Which industries can most benefit?
• Issues in implementing connected worker platforms
• The Future – Big Data and predictive analytics
Mark Bernstein, B.A., Founder & CEO, Wearable Technologies Ltd., UK

14:00  Virtual and Augmented Reality in Rolls-Royce
• Impact of immersive technologies
• Current use of AR/VR
• Future use of AR/VR
Ariane Remmert, Technologist, co-author: Dr. Dimitris Triantafyllidis, Emerging Technologies Manager, both: Rolls-Royce plc., UK

14:30  Conference chair’s closing remarks

14:45  End of conference
The following main topics will be discussed:

- New Value Creation Networks in the IIoT Environment
- Boosting Disruptions – How AI and Robotics will enable the full Promise of the Industrial Internet of Things
- Artificial Intelligence & Bots
- Enabled or Manipulated by Data?
- Becoming a digital Enterprise: IIoT transforming major Industries
- Digital Twin & Mixed Reality
- Disrupted by Blockchain
- Change Management & the Future of Work

Keynotes:
- **Kevin Warwick**, Cyborg and Deputy Vice-Chancellor (Research), Coventry University
- **Dr. Rafael J. Grossmann**, MD, FACS, Singularity University & Surgeon
- **Thomas Frommel**, Senior Data Analyst, Tesla Motors
- **Paul Brook**, Director Data Analytics EMEA, Dell EMC
- **Yuval Dvir**, Head of EMEA Online Partnerships, Google

International VDI Conference

**IT Security for Smart Manufacturing**

Date and venue:
February 20–21, 2018
Munich, Germany

Renowned speakers will present their results on topics such as how to secure their productions facilities against cyber-attacks best, international standards and connectivity in the center of the discussion.

Conference chair: **Dr. Markus Braendle**, Airbus Defense and Space GmbH

Supporting experts:
- **Dr. Ragnar Schierholz**, ABB Automation GmbH
- **Klaus Bauer**, Trumpf Werkzeugmaschinen GmbH + Co. KG
- **Michael Jochem**, Robert Bosch GmbH

Keynotes:
- **Richard Soley**, Executive Director Industrial Internet Consortium & Chairman and CEO, Object Management Group
- **Robert Martin**, Senior Principal Secure Software & Technology Engineer, MITRE Corporation
- **Ron Zahavi**, Chief Strategist for IoT Standards and Consortia, Microsoft

www.vdi-international.com/itsecurity
Exhibition / Sponsoring

If you want to meet with and reach out to the first-rate experts attending this VDI conference and to powerfully present your products and services to the well-informed community of conference participants, please contact:

Venita Izevbizua  
Project Consultant  
Exhibitions & Sponsoring  
Phone: +49 211 6214-355  
Fax: +49 211 6214-97355  
Email: izevbizua@vdi.de

Become a speaker

Become a speaker at our international VDI Energy Conferences. Make yourself known in the industry and discuss best practice examples with other international experts. We are looking for speakers on: IT Security for Power Plants, Digitalization in the Process Industry.

Please submit your topic to  
Katrin Hinrichsen  
Product Manager  
International Business Development  
Phone: +49 211 6214-125  
Email: hinrichsen@vdi.de

Terms and Conditions

Registrations: Registrations for conference attendance must be made in writing. Confirmation of your registration and the associated invoice will be mailed to you. Please do not pay your conference attendance fee until you have received our invoice and its invoice number to be stated for transfer. German VAT directives apply. Please state your VAT-ID with your registration.

Conference venue

Holiday Inn Munich City Centre  
Hochstr. 3  
81669 Munich, Germany  
Phone: +49 89 4803-0  
Email: postoffice@muchb.holidayinn.com  
Website: https://www.ihg.com/holidayinn/hotels/de/de/munich/muchb/hoteldetail

Hotel room reservation: A limited number of rooms has been reserved for the benefit of the conference participants at the Holiday Inn Munich City Centre. Please refer to “VDI Conference”. For more hotels: www.vdi-wissensforum.de/hrs

VDI Wissensforum service package: The conference package includes the conference documents (online), beverages during breaks, lunch and the get together on February 20, 2018.

Conference attendance conditions and terms: By way of your registration you accept the conference attendance conditions and terms of VDI Wissensforum GmbH as binding. Any cancellation of your registration must be made in writing. We will charge you only an administrative fee of € 50.00 plus German VAT if you cancel your registration earlier than 14 days ahead of the conference date. Any cancellation that reaches us after this deadline will entail the conference attendance fee as stated in our invoice to be charged in full. The date of the post office stamp of your written cancellation will be the decisive criterion. In that case, we will gladly mail you the conference documents on request. Subject to agreement, you may name a substitute participant. Individual parts and sections of conferences and seminars cannot be booked. You will be informed without delay if an event has to be cancelled for unforeseeable reasons. In that instance, you will be entitled only to a refund of your conference attendance fee if already paid. We reserve the right to exchange speakers and/or change the program sequence in exceptional cases. In any case, the liability of VDI Wissensforum GmbH is restricted exclusively to the conference attendance fee.

Data protection: VDI Wissensforum GmbH captures and processes the address data of conference participants for their own corporate advertising purposes, enabling renowned companies and institutes to reach out to participants by way of information and offers within their own marketing activities. We have outsourced in part the technical implementation of data processing to external service providers. If you do not want to receive any information and offers in the future, you may contradict the use of your personal data by us or any third parties for advertising purposes. In that case, kindly notify us of your contradiction by using the email wissensforum@vdi.de or any other of the contact options mentioned.
Yes, I will participate as follows:

**Participation Fee + VAT**

- [ ] VDI Conference 20.–21. February 2018
  (02K0018018) € 1,990

**Personal VDI members + VAT**

- [ ] VDI Conference 20.–21. February 2018
  (02K0018018) € 1,890

- [ ] Microsoft Tour, 19. February 2017 – € 50 + VAT – Places are limited – first come – first served

I am interested in sponsoring and/or exhibition

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- [ ] Visa
- [ ] Mastercard
- [ ] American Express

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