

# Industry Day 2018

Game-changing ideas

Wednesday September 5, ETH Zurich Campus Hönggerberg



## Program

- 12:00**      **Registration, opening of the exhibition**
- 13:30**      **Welcome**  
Prof. D. Günther, Vice President Research and Corporate Relations,  
ETH Zurich
- 13:40**      **Health & Food**  
**Case Study: Roche**, Dr. C. Fattinger, Prof. J. Vörös, Molography: A molecular  
hologram for diagnostics  
Prof. S. Schürle, Point-of-care low-cost diagnosis of arthritis  
Prof. M. Tibbitt, Minimally invasive drug delivery systems  
Dr. M. Schmelcher, Bacteriophage endolysins as novel antimicrobials  
ETH Spin-off: PharmaBiome, Next generation microbiome therapy
- 14:15**      **Data Science**  
**Case Study: Zurich Insurance**, G. Gunkel, Prof. C. Zhang, Automated visual  
document parsing  
Prof. E. Konukoglu, Machine learning for image reconstruction and segmentation  
Prof. L. Vanbever, Provably correct network operations  
Prof. S. Feuerriegel, From data-driven predictions to management decision  
ETH Spin-off: DataHow, Hybrid modeling and machine learning in manufacturing
- 14:50**      **Coffee break and exhibition**
- 15:50**      **Mobility & Energy**  
**Case Study: SBB**, Dr. G. Caimi, Prof. F. Corman, Optimization of real-time  
railway traffic  
Prof. G. Sansavini, Infrastructures and energy networks, risk and reliability,  
interdependencies  
Prof. M. Raubal, Big movement data analytics  
Prof. S. Hellweg, Sustainable waste and resource management  
ETH Spin-off: Fixposition, Navigation for autonomous vehicles
- 16:25**      **Robotics & Manufacturing**  
**Case Study: Henkel & Cie.**, Dr. C. Lehringer, Prof. A. Frangi, Fire safety of  
structural timber elements bonded with 1C PUR adhesives  
Prof. S. Coros, Computational approaches to creating bespoke mobile robots  
Prof. U. Angst, Corrosion inspection and monitoring  
Prof. D. Hall, Building an Industry 4.0 platform for industrialized construction  
ETH Spin-off: 9tlabs, Fiber reinforced materials through 3D printing
- 17:00**      **Closing remarks**  
Prof. D. Günther
- 17:10**      **Exhibition and networking**