

8:30

8:30 AM - 9:00 AM **Registration with coffee**
9:00 AM - 9:15 AM **Welcome** By Prof. Olga Fink, EPFL

9:15

9:15 AM **Autonomous Robots for Industrial Inspection**
9:35 AM By Dr. Harmish Khambhaita, ANYbotics

9:35 AM **Autonomy and Me: Creating a Cyber Physical System to allow for scalable Multi-Robot Fleets**
9:55 AM By Sam Harper, University of Glasgow

9:55 AM **Autonomous Inspection with Drones**
10:15 AM By Prof. Dr. Davide Scaramuzza, University of Zurich

10:15 AM **Session Q&A and Discussion** Chair: Prof. Olga Fink
10:45 AM

10:45



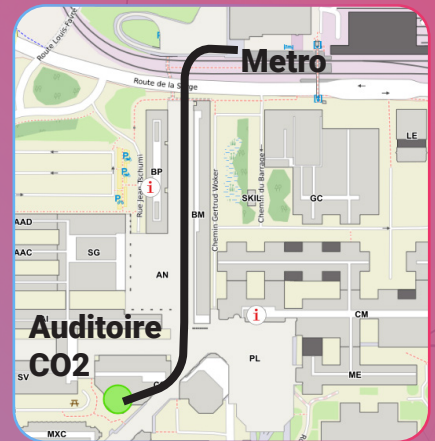
Coffee

11:15

11:15 AM **Grid 4.0 – Digital Solutions for Axpo's Grid Business**
11:35 AM By Johannes Manser, Axpo Grid AG

11:35 AM **Program Digital Power Plant – an Initiative for digital solutions in the SBB Energy Value Chain**
11:55 PM By Philipp Wenk, SBB

11:55 AM **Session Q&A and Discussion** Chair: Kai Hencken
12:15 PM



12:15



Lunch

13:30

1:30 PM **Fast Time Series Analytics for Fault Detection, Diagnostics, and Prognostics**
1:50 PM By Dr. Daniel Nikovski, Mitsubishi Electric Research Labs (MERL)

1:50 PM **Unsupervised Test-Time Domain adaptation for Road Damage Detection applied to different Countries**
2:10 PM By Ismail Nejjar, EPFL

2:10 PM **Asset Integrity Inspection of Subsurface Defects and Foresight Sensing via Millimeter-wave Radar**
2:30 PM By Daniel Mitchell, University of Glasgow

2:30 PM **Session Q&A and Discussion** Chair: Pierre Dersin
3:00 PM

15:00



Coffee

15:30

3:30 PM **Towards Global Smart Maintenance for Thermal Spray Equipment** By Dr. Majid Nabavi, Oerlikon Surface solutions
3:50 PM

3:50 PM **Challenges of PHM applications in the context of pharmaceutical packaging machines**
4:10 PM By Dr. Andreas Steur, Uhlmann Pac-Systeme

4:10 PM **Session Q&A and Discussion** Chair: Riccardo Ferrari
4:30 PM

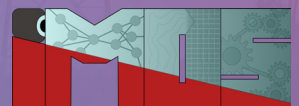
16:30



Apero

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8:30

8:30 AM - 9:00 AM **Registration with coffee**
9:00 AM - 9:15 AM **Welcome** By Prof. Olga Fink, EPFL

9:15

9:15 AM **Monitoring and Management of Data Centers in the Internet-of-Things Era** By Prof. Dr. David Atienza Alonso, EPFL
9:35 AM **Development of Intelligent maintenance capabilities for machine tools through Industrial cloud-based IoT systems** By Roberto Perez, GF Machining Solutions
9:55 AM **Implementing a BigData platform to predict track condition & degradation - Current Insights** By Erik Pinter, ÖBB-Infrastruktur AG
10:15 AM **Session Q&A and Discussion** Chair: Fazel Ansari

10:45



11:15

11:15 AM **Acoustic monitoring based on Learnable wavelet transform** By Gaetan Frusque & Baorui Dai, EPFL
11:35 AM **Unsupervised learning for quality control in automated manufacturing for the automotive industry** By Dr. Roman Klis, Johnson Electric
11:55 AM **Session Q&A and Discussion** Chair: Bruce Stephen

12:15



13:30

1:30 PM **Mapping underground utilities with ground penetrating radar and machine learning** By Tobias Bösch Borgards, Hexagon Technology Center GmbH
1:50 PM **Mobile Mining Machinery, monitoring when fault modes are plentiful and sensors few** By Dr. Erik Jacobsson, Epiroc
2:10 PM **Session Q&A and Discussion** Chair: Roberto Castello

14:30



3:00 PM **Knowledge-Based Maintenance as an Enabler and Driver of Efficient and Sustainable Production Management** By Dr-Ing. Fazel Ansari, TU Wien
3:20 PM **Towards full-lifecycle bearing health state monitoring: Challenges and opportunities** By Dr. Cees Taal, SKF
3:40 PM **Session Q&A and Discussion** Chair: Florent Forest

15:00

16:00

4:00 PM **Panel discussion: common challenges and potential solutions across different industries and applications**
5:00 PM
Panelists: Cees Taal, Fazel Ansari, Roberto Perez and Riccardo Ferrari
Moderator: Olga Fink

17:00



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