







The Control Room of the Future: Al empowered dashboards

7 October 2022

Speakers





ETH zürich















Objectives of the Workshop









Artificial Intelligence in control rooms: discuss opportunities and limitations



Narrow the gap between academics and practitioners



Presenting the On Track Lab











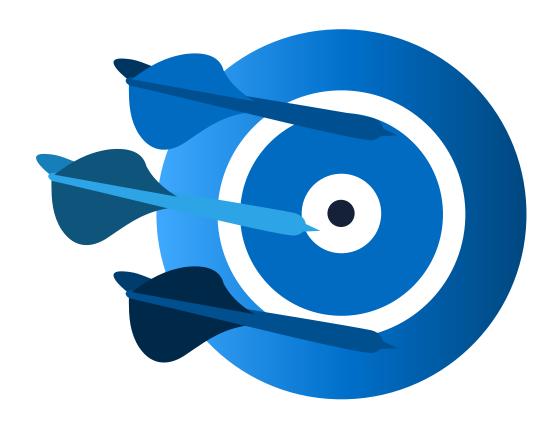
Improve and optimize control room management



Data-driven and **multidisciplinary** research (AI, OM, SD, etc)



Focus on **implementation** and feedback from **operational experts**



Morning: 40 minute presentations, including Q&A

09.30 - 09.40	OPENING Bart Roets, Infrabel & On Track Lab, Belgium
	KEYNOTE
09.40 - 10.20	Railway traffic control room, and room for control Francesco Corman, ETH Zurich, Switzerland
	RAILWAY CONTROL ROOMS
10.20 - 11.00	Real-time prediction of employee workload in digital railway control rooms Léon Sobrie, Ghent University & On Track Lab, Belgium
	COFFEE BREAK
11.20 - 12.00	Developing decision support systems for traffic control Wilco Tielman, ProRail, Netherlands
	ENERGY CONTROL ROOMS
12.00 - 12.40	The role of AI in decision support tools for electricity grid control room Hakan Ergun & Hussein Kazmi, EnergyVille, Belgium

Lunch and poster session

PhD POSTERS

12.40 - 13.40

Prescriptive maintenance with causal machine learning

Toon Vanderschueren, KU Leuven, Belgium

Internal Placement: Job Recommender Systems with Social Regularization

Simon De Vos, KU Leuven, Belgium

Balancing workload in digital railway control rooms

Changyu Men, IÉSEG School of Management, France

Afternoon: 40 minute presentations, including Q&A

	AVIATION CONTROL ROOMS
13.40 - 14.20	Democratizing business intelligence and machine learning for air traffic management safety Riccardo Patriarca, Sapienza University of Rome, Italy Radu Cioponea, EUROCONTROL
14.20 - 15.00	Artimation: transparent artificial intelligence and automation to air traffic management systems Christophe Hurter, École Nationale de l'Aviation Civile (ENAC), France
	COFFEE BREAK
15.20 - 16.00	Putting the AI in air traffic control Evelina Gabasova, The Alan Turing Institute, UK
	CRITICAL CONTROL ROOMS
16.00 - 16.40	Industry vision and expectations of AI in the control room Peter Prater, International Critical Control Rooms Alliance (ICCRA)
16.40 - 16.50	CLOSING Marijn Verschelde, IÉSEG School of Management & On Track Lab, France
16.50 - 18.00	NETWORKING EVENT