PROGRAM

18th February: AI and Rehabilitation - Mathias Blandeau

9:00	Opening session of the day	
9:15	Session 1: AI and locomotor disorders detection	1.1 Anaïs Chaumeil / Mathias Blandeau *ETS Montréal - LAMIH* Towards and ecological evaluation of falling risk
		1.2 Babak Taati *KITE Research Institute Toronto Rehab UHN, U Toronto* Assessing neurological and rare diseases through motion analysis
10:45	Coffee break	
11:00	Session 2: AI and personalizating healthcare program	2.1 Neila Mezghani *TELUQ - ETS Montréal* Personalizing orthopedic treatment for knee surgery
		2.2 Matei Mancas *Université de Mons* Heterogeneous data and time-line for personalizing healthcare
12:30	Lunch break	
14:00	Session 3: AI for rehabilitation and mobility assistance	3.1 Guillaume Durandau *CRIR - Mc Gill University* Neuromusculoskeletal modelling and deep learning for balance study
		3.2 Sylvia Pelayo *CIC-IT Lille* Beyond the myth of AI: practices, empowerment, and system transformations. Designing & implementing AI for rehabilitation and mobility assistance
15:30	Round table discussion (Pablo Piantanida + Mathias Blandeau + speakers)	
16:15	End of DAY 1	

19th February: AI, vision & robotics in healthcare – Nicolas Thome

8:45	Opening session of the day	
9:00	Session 1: Surgery	1.1 Stefan Parent *Sainte-Justine University Hospital, Montreal* How AI Is Used in Imaging and Surgery: Enhancing Accuracy, Speed, and Clinical Decision-Making

		1.2 Mathilde Gaumé *APHP, Trousseau hospital, Paris* Artificial Intelligence in Spine Surgery: Perspectives on Integrating AI to Optimize Patient Care
10:30	Coffee break	
11:00	Session 2: Surgical Vision & Robotics	2.1 Marta Kersten-Oertel *Concordia University* Augmented Surgical Vision for Affordable and Precise Neurosurgical Guidance 2.2 Nicolas Padaoy *Icube, University of Strasbourg* Harnessing the Power of Vision and Language to Improve Surgical Safety
12:30	Lunch break	
13:30	Session 3: AI for Robotics 1	3.1 Doina Precup (McGill University & DeepMind) 3.2 Glen Berseth (Mila, Université de Montréal)
15:00	Coffee break	
15:30	Session 4: AI for Robotics 2	4.1 Olivier Stasse *LAAS-CNRS, Toulouse* Whole body model predictive control and reinforcement learning to generate motion on legged robots 4.2 Shizhe Chen *INRIA Paris, Willow* 3D-based robotic foundation models
17:00	End of DAY 2	

20th February: Understanding the Brain with AI – Sylvain Bouix

9:00	Opening session of the day	
9:15	Session 1: Evaluating reproducibility and performance in AI-driven brain research	1.1 Tristan Glatard *CAMH – Krembil Centre for Neuroinformatics* 1.2 Ninon Burgos *Paris Brain Institute*
10:45	Coffee break	
11:00	Session 2: Mapping the brain function with AI	2.1 Lune Bellec *Université de Montréal* 2.2 Bertrand Thirion *INRIA Saclay*
12:30	Lunch break	
14:00	Session 3: Predicting brain disorders	3.1 Tal Arbel *McGill University* 3.2 Demian Wassermann *INRIA Saclay*
15:30	Round table discussion (Pablo Piantanida + Sylvain Bouix + speakers)	
16:15	End of DAY 3	

Address:

Salon des Diplomés Vidéotron (E2033), Pavillon E de l'ETS
1220 Rue Notre-Dame Ouest, Montréal