

School Program - Theoretical sessions

Monday April 17

- 08h30 – 09h00 Welcome coffee
- 09h00 - 10h30 Basics of deep learning 1
Christian Desrosiers - ETS Montréal
- 10h30 - 11h00 Coffee break**
- 11h00 - 12h30 Basics of deep learning 2
Christian Desrosiers - ETS Montréal
- 14h00 - 15h30 Advanced concepts of deep learning
Michaël Sdika - Creatis, Lyon

Tuesday April 18

- 9h00 - 10h30 Generative, auto-encoders and adversarial methods for medical imaging
Olivier Bernard, Creatis Lyon and Christian Desrosiers, ETS Montreal
- 10h30 - 11h00 Coffee break**
- 11h00 - 12h30 Weakly and Semi-supervised learning
José Dolz and Christian Desrosiers, ETS Montréal

Wednesday April 19

- 9h00 - 10h30 Few-Shot learning
José Dolz, ETS Montréal
- 10h30 - 11h00 Coffee break**
- 11h00 - 12h30 Privacy in machine learning: from centralized to federated approaches for medical data
Antoine Boutet, Inria Lyon, Carole Frindel, Creatis, Lyon

Thursday April 20

- 9h00 - 10h30 Transformers for medical image segmentation
Nicolas Thome, Sorbonne University, Paris
- 10h30 - 11h00 Coffee break**
- 11h00 - 12h30 Round table: Frugal and sustainable AI
With Stefan Duffner, Kamel Guerda, Denis Trystram
Moderator: Paul de Brem

Friday April 21

- 09h00 - 10h30 Geometric deep learning - Examples on brain surfaces
Hervé Lombaert, ETS Montréal
- 10h30 - 11h00 Coffee break**
- 11h10 - 12h30 Deep learning for image reconstruction
Nicolas Ducros, Creatis Lyon