AI4I program: Main Tract / Clinical Tract

# Wednesday 11th – Radiomics

09:00-09:30 Welcome and course introduction – Philippe Lambin

09:30-10:15 Radiology/Imaging challenges – Marc Lobbes

10:15-11:00 The Image Biomarker Standardization Initiative (IBSI) – Alex Zwanenburg-Bezemer

10:15-11:00 Radiomics in a clinical workflow - Joe Deasy

11:00-11:45 Pitfalls in radiomics analysis and associated AI-based solutions – Mathieu Hatt

11:00-11:45 Closing the translational gap – Olivier Morin

11:45-13:00 Lunch

13:00-17:00 Hands-on radiomics workshop for scientists

13:00-17:00 Hands-on radiomics workshop for beginners

# Thursday 12th – Deep Learning

09:00-09:30 Wednesday recap and discussion – Henry Woodruff

09:30-10:15 Success stories – Bram van Ginneken

10:15-11:00 Deep learning and radiomics – Joe Deasy

11:00-11:45 Ensemble, challenges – Bjoern Menze

11:00-11:45 Deep learning in a clinical workflow – Andrew Maidment

11:45-13:00 Lunch

13:00-17:00 Hands-on deep learning workshop for scientists

13:00-17:00 Hands-on deep learning workshop for beginners

# Friday 13th – Data

09:00-09:30 Thursday recap and discussion – Joe Deasy

09:30-10:15 Advancing Clinical Medicine with the FAIR principles – Michel Dumontier

10:15-11:00 MEDomics: a framework for the development of AI in medicine – Olivier Morin

11:00-11:45 Synthetic Data – Andrew Maidment

11:00-11:45 Meet the professor session

11:45-13:00 Lunch

13:00-17:00 Hackathon at The D-Lab, Maastricht University (coffee at UM)

13:00-17:00 Design a clinical trial - Philippe Lambin

# Saturday 14th – Multicentric distributed learning

09:00-09:30 Friday recap and discussion – Olivier Morin

09:30-10:15 Distributed learning – Seán Walsh

10:15-10:45 Distributed learning demo – Samir Barakat

10:45-11:30 Closing statements – Wim Vos and Philippe Lambin

11:30-12:00 AI4Imaging competition

12:00-13:00 Lunch

13:00-17:00 Hackathon at The D-Lab, Maastricht University (coffee at UM)

13:00-17:00 Statistical analysis of clinical trials – Cary Oberije