

## **PROGRAM**

|       | Day-time                        | Class/Lab   | People   |
|-------|---------------------------------|---|--|
| Day 1 | Monday, July 13th<br>9:30am     | Introduction to the course<br>From Neural Networks to Deep<br>Neural Networks | Nicoletta Noceti   |
|       | Monday, July 13th<br>11:15am    | Lab #1 - Deep Neural Networks   | Issa Mouawad<br>Elena Nicora<br>Nicoletta Noceti             |
| Day 2 | Tuesday, July 14th<br>9:30am    | Dealing with images:<br>Convolutional Neural Networks                         | Nicoletta Noceti   |
|       | Tuesday, July 14th<br>11:15am   | Lab #2 - Convolutional Neural<br>Networks                                     | Issa Mouawad<br>Paolo Didier Alfano<br>Nicoletta Noceti      |
| Day 3 | Wednesday, July 15th<br>9:30am  | Dealing with time: Recurrent<br>Neural Networks and Long-Short<br>Term Memory | Nicoletta Noceti   |
|       | Wednesday, July 15th<br>11:15am | Lab #3 - Recurrent Neural<br>Networks & Long-Short Term<br>Memory             | Vito Paolo Pastore<br>Tilani Gunawardena<br>Nicoletta Noceti |
| Day 4 | Thursday, July 16th<br>9:30am   | Autoencoders and GANs   | Nicoletta Noceti   |
|       | Thursday, July 16th<br>11:15am  | Lab #4 - GANs   | Giorgio Cantarini<br>Luca Garello<br>Nicoletta Noceti        |
| Day 5 | Friday, July 17th<br>9:30am     | Limitations and new frontiers   | Nicoletta Noceti   |
|       | Friday, July 17th<br>10:00am    | Starting with your own data: a case study                                     | Gaurvi Goyal   |
|       | Friday, July 17th<br>10:30am    | Applications: An industrial take  | Vito Paolo Pastore   |
|       | Friday, July 17th<br>11:15am    | Applications: Human Motion Understanding in the Rehab Field                   | Matteo Moro  |
|       | Friday, July 17th<br>11:45am    | Applications: Visual perception for autonomous agents                         | Issa Mouawad   |