Insight

Deep Learning Workshop, 21-22 May 2018, HG23, Nursing Building, DCU Glasnevin Campus

Agenda: Monday 21st May 2018

9.00 - 9.30: Registration and tea/coffee
9.30am:

- 9:30-9:50: Welcome & overview of Insight, Prof Noel O'Connor, Director, Insight, DCU
- 9:50-10:25: Academic Keynote: Sebastian Ruder, Insight:*"Successes & Frontiers of Deep Learning"*
- 10:20-10:40: Industry Keynote: Stephen Foy, Vision & Deep Learning Engineer | Valeo Expert: *"Practical applications of Deep Learning from the Automotive industry"*
- 10.40-11.00: Industry Keynote: Haytham Assem, IBM Master Inventor, Cognitive Computing Group, Innovation Exchange *"The Notion of Urban Reasoning and its impact on some of the challenges that cities face today"*

11.00: Coffee Break and Poster/Demo Session
12.00:
Case studies of Machine Learning in action (15 mins each):

- Dr. Kevin McGuinness, Insight Centre, DCU: *"Learning where and when to look"*
- Sharon Ruane, Intel: *"AI @ Intel"*
- Prof Xavier Giro, Universitat Politecnica de Catalunya: *"Skipping & repeating samples in recurrent neural networks"*,
- Dr Eva Mohedano, Insight Centre, DCU: *"Deep Image Representations for Instance Search"*

13.00 - 14.30: Lunch Break
14.30 - 15.45: Workshop sessions

- Linear models, perceptrons
- Deep neural networks
- Training with Backprop

15.45 - 16.15: Coffee Break
16.15 - 17.30: Workshop Sessions

- Imagent
- Visualization
- Architectures

9.30 - 11.00: Workshop Session

- Video
- Generative
- Optimization

11.00 - 11.15: Coffee Break
11.15 - 13.15: Workshop Session

- Transfer Learning
- Object Detection
- Retrieval
- Segmentation

13.15 - 14.30: Lunch
14.30 - 15.45: Workshop Session

- RNN
- Embeddings
- Machine Translation

15.45 - 16.15: Coffee Break
16.15 - 17.30: Workshop Session

- Audio & Vision
- Language & Vision
- Attention