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
- 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”
- 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
- ImageNet
- Visualization
- Architectures
**Agenda: Tuesday 22nd May, 2018**

**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