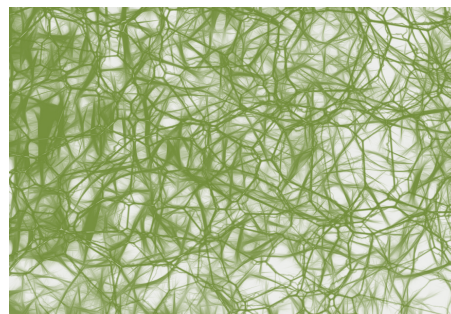


Applied Deep Learning Symposium

You are welcome to attend the Applied Deep Learning symposium, with talks from our MEng students on a „deep learning“ topic of their choice.

Format: Talks are 5 mins long and topic sessions are 20-40 minutes long. Dates and locations below



Day 1 - Monday 2nd of Dec [QB.F101]

Session: Generative and Adversarial 1

2/12/19	11:00	Daniel Scott	Deep Dream
		Joseph Arneil	Style Transfer
		Jonathan Carpenter	Using GANs for image synthesis
		Joseph Mills	Using deep learning to generate human motion
		Jorge Sanchez-Cano	Deep Fakes; DeepFake detection

BREAK

Session: Generative and Adversarial 2

2/12/19	11:30	Linh Pham	Image colourisation with deep learning
		Sam Sutherland-Dee	Video-to-Video Synthesis
		Sibela Chinareva	Self-Attention generative adversarial network
		Mark Nicholl	Fooling systems trained with DNNs
		Adam Sadiq	Deep learning for pixel-level image fusion

BREAK

Session: Medical and Biologically Inspired 1

2/12/19	12:00	Alfred Brown	Biologically plausible backpropagation in neuronal dendritic behaviour
		Daniel Davies	Using deep learning to monitor the status of endangered wildlife
		Rachel Kirby	Deep Learning for materials science
		Callum Fawcett	Deep learning for new drug discovery

BREAK

Session: Language and Speech

2/12/19	12:25	Jay Lees	Siri: On-device deep-learning guided text-to-speech system
		Konstantina Psoma	Deep learning for conversational AI/Chatbots
		Ben Hermans	CNNs for text classification
		Adam Fox	Voice cloning with deep learning
		Palvi Shah	Neural Machine Translation
		Miklos Borsi	Deep learning in sentiment analysis and logical analysis

BREAK

Session: Vision 1

2/12/19	13:00	Yi-Ching Chen	Automatic Image Captioning
		Ben Fossett	One-Shot Learning with Siamese Networks
		Harry Stevens	Deep SentiBank for visual sentiment analysis
		Tim Roderick	Deep learning for event detection in sport

BREAK

Session: Vision 2

2/12/19	13:25	Ali Unla	Temporal Convolutional Networks
		Faizaan Sakib	Spatial-Temporal graph convolutional networks for skeleton action recognition
		Ashwinder Khurana	Deep learning for football event detection
		Will Leeney	Using deep learning to understand patterns of player movement in basketball

Day 2 - Friday 6th of Dec [QB.1.68]

Session: Hardware, Software and Theory

06/12/19	12:00	Robert Sparks	Interpretability in deep learning, visualising image classifiers
		Chetan Mistry	How do O/S's affect learning
		Thomas Alldridge	Deep learning on Neuromorphic Hardware
		Kheeran Naidu	Weight initialising using Kaiming
		Adam Pluck	Representation of DNNs as gaussian processes
		Kipp McAdam Freud	Source separation with deep learning

BREAK

Session: Medical and Biologically inspired 2

06/12/19	12:35	David Sharp	Biologically inspired deep learning
		Ayshe Kuran	Using CNNs for brain tumour segmentation

Day 3 - Monday 9nd of Dec [QB.F101]

Session: Medical and Biologically Inspired 3

9/12/19	11:00	Dominic Rawlins	Detecting congestive heart failure from heartbeats
		Andra Popa	CapsNET for medical images
		Aaron Wray	A deep learning approach to diagnosing Parkinson's disease
		Tristen Warren	Deep neuro evolution

BREAK

Session: Medical and Biologically Inspired 4

9/12/19	11:25	Lucian Carp	Deep learning: Depression diagnosis
		Sam James	Medical imaging analysis using deep learning
		Katie Marquand	Deep learning techniques for brain-computer interfaces
		Hayden Isaac	Deep learning in cellular biology

BREAK

Session: Music, Games and Graphics

9/12/19	11:45	Jack Jones	OpenAI Five
		Rudy Hagemichael	Using CNNs to denoise monte carlo rendering
		Kenneth Lomas	EdgeConv:Dynamic Graph CNN
		Xingyang Zhou	Using Deep learning in game AI
		Lewis Bell	Item-based collaborative filtering for music using generalised deep semantic embeddings
		Nuha Tumia	Building the bridge between deep learning and the fashion industry
		Leechay Moran-Allen	Deep neural networks for YouTube recommendations

BREAK

Session: Deep learning for Control

9/12/19	12:30	Angus Williams	Applications and Implementation of Deep Learning in Swarm Intelligence
		Roman Bromidge	Phase functioned neural networks for character control
		Farrel Zulkarnaen	Guided deep reinforcement learning for swarm systems
		Stoil Ganev	World models
		Dafydd Broom	Deep NN to predict taxi trip destination

BREAK

Session: Finance & Security

9/12/19	13:00	Ben Lee	Deep learning and sentiment analysis focus: finance
		Will Smith	Time series prediction/automated traders
		Marco Lewis	Deep learning and cryptography
		Andra Vasilcoiu	Deep learning and momentum investing
		Jake Farren-Price	Deep learning with predictability in betting
		Nashe Mncube	Formally verifying deep neural networks