CDT Student Conference
Wednesday 7th June 2017
Lady Margaret Hall, Oxford

10:00 – 10:05  Welcome – Niki Trigoni – CDT Director (AIMS)

Keynote Talk
10:05 – 10:50  Andrea Vedaldi, Department of Engineering Science, University of Oxford – Understanding images using modern deep neural networks

Session chair: Luke Cramphorn

10:50 – 11:10  Adam Cobb – Understanding the behaviour of agents from their trajectories

11:10 – 11:30  Christian Rauch & Maurice Fallon – Visual articulate tracking for humanoid manipulation

11:30 – 11:50  Break

Session chair: James Garforth
11:50 – 12:10  Simon Jones – *Evolving behaviour trees for swarm robotics*

12:10 – 12:30  Leo Berrada, Andrew Zisserman & Pawan Mudigonda – *Trusting SVM for piecewise linear CNNs*

12:30 – 12:50  Simona Nobili & Maurice Fallon – *Laser-based perception for robust localization of dynamic robots*

12:50 – 13:30  *Lunch*

**Session chair: Dave Pollard**

**Keynote Talk**


14:35 – 14:55  Ivan Kiskin – *Mosquito detection with neural networks: The buzz of deep learning*

14:55 – 15:25  Poster talks (2 mins per person)

- Ankush Gupta
- Kirsty Aquilina, David A.W. Barton & Nathan F Lepora
- Boris Mocialov, Helen Frances Hastie, Patricia Vargas & Graham Turner
- Chongjing Cao & Andrew Conn
- Zeke Steer
- Katie Winkle
- Cara Williamson
- Daniel Gordon, Graham Henderson & Sethu Vijayakumar
- Chanelle Lee, Jonathan Lawry & Alan Winfield
- Marian Andrecki & Nicholas KenelmTaylor
- Wolfgang Merkt
- Georgi Tinchev

15:25 – 15:55  *Break and Poster Session*

**Session chair: Wolfgang Merkt**

15:55 – 16:15  Teun Krikke, Frank Broz & David Lane – *A comparative study of non-negative matrix factorisation and deep learning techniques*
16:15 – 16:35  Kiyan Maheri – *An adaptive modular recurrent cerebellum-inspired controller*

16:35 – 16:55  Rowan Border – *Inferring surface geometry from point clouds for next best view (NBV) planning*

16:55 – 17:15  Jose Luis Part & Oliver Lemon – *Towards a framework for teaching robots through situated interactive dialogue and visual demonstrations*

17:15 – 17:35  Miguel Lagunes-Fortiz, Walterio Mayol-Cuevas & Dima Damen – *Towards in-situ on-line object recognition using CNNs*

**Session chair: Oliver Bartlett**

17:35 – 17:55  *Industry Panel Q&A “Real Industrial Research Challenges”*

- Rich Walker, Shadow Robot Company, Managing Director
- Alison Lowndes, nVidia
- Brian Song, Samsung

18:00 – 21:00  *Drinks & Buffet – Talbot Hall*