

# ARTIFICIAL & BIOLOGICAL COGNITION



### 7<sup>th</sup> Cambridge Neuroscience Symposium



12th-13th September 2019 - Cambridge, UK

#ABC2019

Symposium Day One: Thursday 12th September 2019

08:00-09:00 Registration and coffee

#### Opening of the Symposium:

Welcome by **Professor Ole Paulsen** 

09:00-09:10 Opening address from **Professor Andy Neely** 

Pro-Vice-Chancellor for Enterprise & Business Relations

Chair: Professor Angela Roberts, Department of Physiology, Development & Neuroscience

09:10-09:50 The Alan Hodgkin Plenary Lecture

Dr Demis Hassabis, DeepMind

09:50-10:20 **Professor Wolfram Schultz** 

Department of Physiology, Development & Neuroscience, Cambridge

10:20-10:50 Refreshments

### Session One: Reinforcement Learning

Chair: Professor Matt Botvinick, DeepMind 10:50-11:20 **Professor Satinder Singh** 

Department of Electrical Engineering & Computer Science,

University of Michigan

**Professor Geoffrey Schoenbaum** 11:20-11:50

National Institute of Drua Abuse

11:50-12:20 Dr Carl Edward Rasmussen

Department of Engineering, University of Cambridge

12:20-12:50 Data blitz

12:50-14:30 Lunch, Poster Session and Trade Exhibition

#### **Session Two: Navigation**

Chair: Dr Stephen Eglen, Department of Applied Maths and Theoretical Physics

14:30-15:00 Dr Andrea Banino DeepMind, London

15:00-15:30 Dr Juliia Krupic

Department of Physiology, Development & Neuroscience, Cambridge

15:30-16:00 **Professor Nachum Ulanovsky** 

Department of Neurobiology, Weizmann Institute of Science, Israel

16:00-16:30 Refreshments

#### **Session Three: Robotics**

Chair: Dr Adrian Weller, Department of Engineering

16:30-17:00 **Professor Leslie Kaelbling** 

Department of Electrical Engineering and Computer Science, Massachusetts

Institute of Technology

17:00-17:30 **Professor Barbara Webb** 

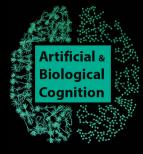
Institute for Perception, Action and Behaviour, University of Edinburgh

17:30-18:00 **Dr Hatice Gunes** 

Department of Computer Science & Technology, University of Cambridge

18:30-19:30 Reception at Trinity College, Cambridge

Conference dinner at Trinity College, Cambridge 19:30-22:00



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Symposium Day Two: Friday 13th September 2019

09:00-09:30 Registration and coffee

**Session Four: Vision** 

Chair: **Professor Zoe Kourtzi**, Department of Psychology

09:30-10:00 Professor Anthony Movshon

Center for Neural Science, New York University

10:00-10:30 **Dr Andrew Welchman** 

Department of Psychology, University of Cambridge/Wellcome Trust

10:30-11:00 **Dr Jasper Poort** 

Department of Psychology, University of Cambridge

11:00-11:30 Professor Anya Hurlbert

Institute of Neuroscience, Newcastle University

11:30-12:00 Refreshments

**Session Five: Communication** 

Chair: Dr Paula Buttery, Department of Computer Science & Technology

12:00-12:30 **Dr Marco Baroni** 

Facebook Research

12:30-13:00 Professor Lorraine Tyler

Department of Psychology, University of Cambridge

13:00-13:40 The Andrew Huxley Plenary Lecture

**Professor Catherine Dulac** 

Department of Molecular and Cellular Biology, Harvard University

13:40-15:00 Lunch, Poster Session and Trade Exhibition

Session Six: Mental Health

Chair: **Professor Ed Bullmore**, Department of Psychiatry

15:00-15:30 Professor Michael Browning

Department of Psychiatry, University of Oxford

15:30-16:00 Dr Hannah Clarke

Department of Physiology, Development & Neuroscience, Cambridge

16:00-16:30 Professor Paul Fletcher

Department of Psychiatry, University of Cambridge

16:30-17:00 Refreshments

Session Seven: Neuroethics of Artificial Intelligence in Neuroscience (open to public)

Convenor: **Professor Barbara Sahakian** 

Department of Psychiatry, University of Cambridge

17:00-18:30 Panel members:

Mr Tom Feilden

Science & Environment Editor, Today Programme, BBC Radio 4

Professor Ann Copestake

Department of Computer Science & Technology, University of Cambridge

Dr Karina Vold

Leverhulme Centre for the Future of Intelligence, University of Cambridge

**Professor Bill Byrne** 

Department of Engineering, University of Cambridge

18:30-19:30 Drinks reception, Foyer West Road Concert Hall