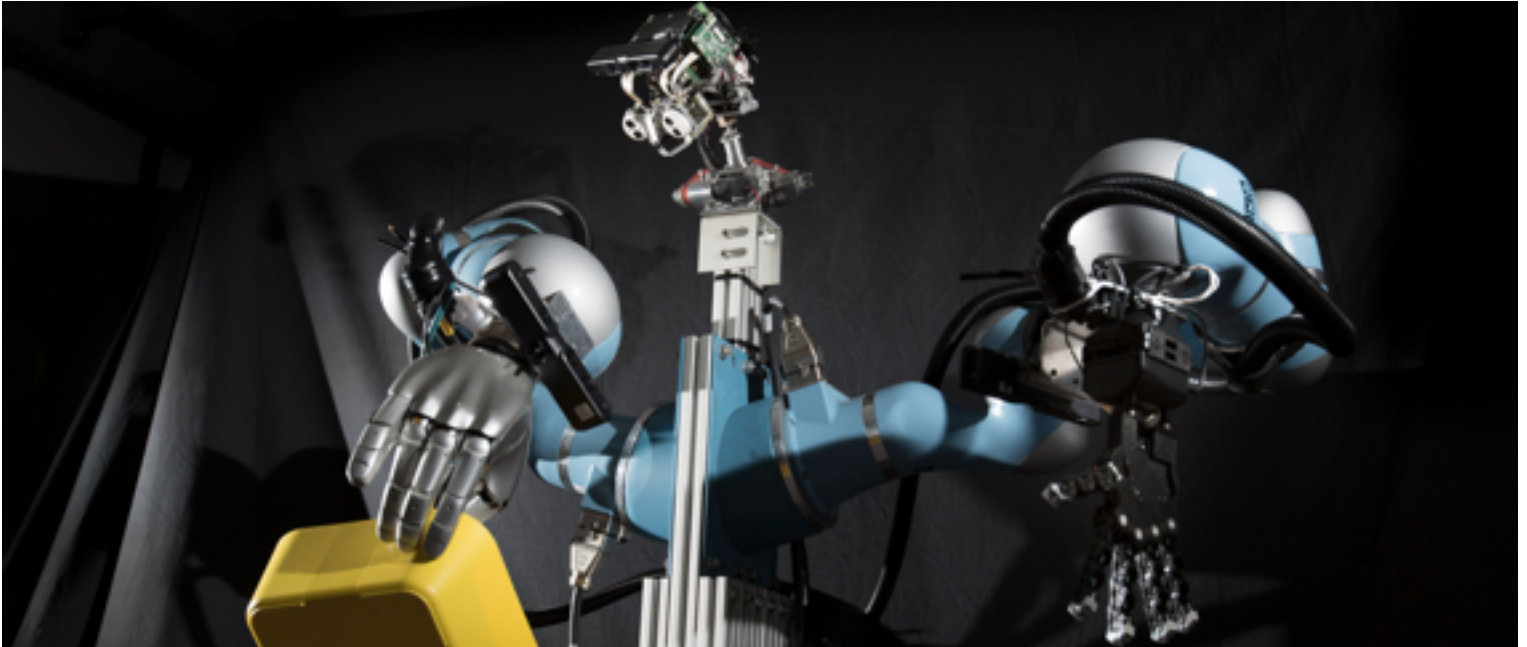


1st UK Robot Manipulation Workshop



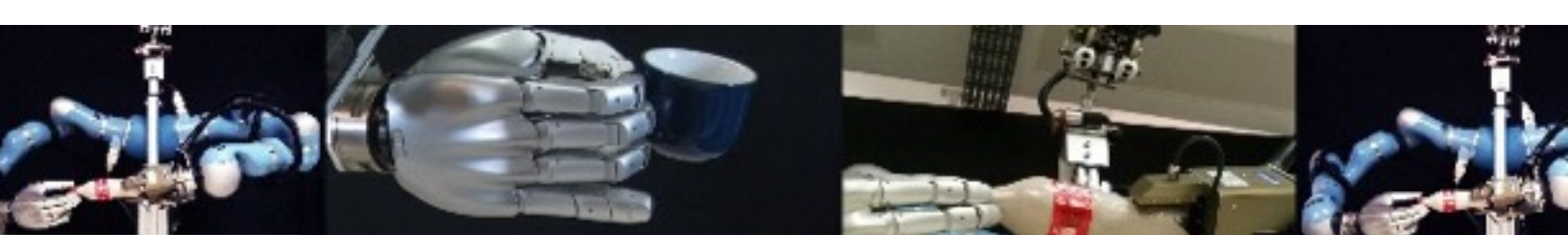
11-12 February 2016

University of
Birmingham:
Nicholson Building (G11)

Please see: [https://
www.eventbrite.com/e/
1st-uk-manipulation-
workshop-
tickets-20152760449](https://www.eventbrite.com/e/1st-uk-manipulation-workshop-tickets-20152760449)

This workshop is a community building exercise for UK Robot Manipulation researchers and industrial end users. The workshop is free to attend, and lunch and refreshments will be provided. A number of invited talks will be given, and there will be poster and industry sessions. Finally there will be a short session on a proposal for future community events. Because of limited availability, in order to be eligible to attend you must be a member of a university, a company, or public or private institution with interest in robotics manipulation.





Event Schedule: Thursday 11th February

10.00 - Welcome and Registration with Refreshments

Invited Talks: Manipulators

10.35 - Mandayam Srinivasan, TBC

11.00 - Jian Dai, KCL - Development and Manipulation Application of the Metamorphic Hand

11.25 - Kaspar Althoefer, KCL - Soft Manipulators

11.50 - Steve Davis, Salford - Variable stiffness and soft manipulators

12.15 - Martin Stoelen, Plymouth - The GummiArm Project

12.40 - Lunch & First Poster Session

Invited Talks: Assembly

13.20 - Phil Webb - Manipulation in an Industrial Context and Closer Human Robot Integration

13.45 - Niels Lohse, Loughborough - TBC

14.10 - Mehmet Dogar, Leeds - Multi-Robot Manipulation Planning for Assembly

14.35 - Short rest break

Invited Talks: Touch

14.50 - Ravinder Dahiya, Glasgow - Shaping Electronics to let robots feel

15.15 - Nathan Lepora, Bristol - Active touch and manipulation

15.40 - Hongbin Liu, KCL - Interactive contact sensing and perception for robotic manipulation

16.05 - Coffee Break

Industry Session

16.30 - Graham Deacon, Ocado - Some Manipulation Challenges at Ocado

16.50 - Jeremy Hadall, MTC - Advanced and Dexterous Manipulation in High Value Manufacturing

17.10 - Rich Walker, Shadow - Commercial challenges in dexterous manipulation

17.20 - Patrick Courtney - Manipulation and challenges for robotics in the scientific laboratory

17.45 - Second Poster Session and Refreshments

19.00 - Coach

19.30 - Dinner



Event Schedule: Friday 12th February

08.45 - Community Building Proposal

Invited Talks: Learning and Development 1

09.10 - Sethu Vijayakumar, Edinburgh - Shared Autonomy for Interactive Robotics

09.35 - Mark Lee, Aberystwyth - The Developmental Approach for Early Sensory-Motor Learning

10.00 - Ed Johns, Imperial - Deep learning for multi-view recognition and grasping

10.25 - Short Rest Break

Invited Talks: Learning and Development 2

10.40 - Marek Kopicki, Birmingham - Learning and prediction of contacts in robotic manipulation

11.05 - Marc Deisenroth, Imperial - Data-Efficient Learning for Autonomous Robots

11.30 - Matthew Howard, KCL - Learnt redundancy resolution and constraints in grasping

12.00 - Lunch & Poster Session

Invited Talks: Planning and Vision

12.40 - Paul Siebert, Glasgow - Clothing Manipulation

13.05 - Maurice Fallon, Edinburgh - Motion planning and visual perception for high dimensional systems

13.30 - Jeremy Wyatt, Birmingham - Information gathering during grasping

Short Talks

14.00 - Samia Nefti-Meziani, Salford & Paul Mort, Sellafield - Challenges and scenarios in Nuclear, Oil & Rail

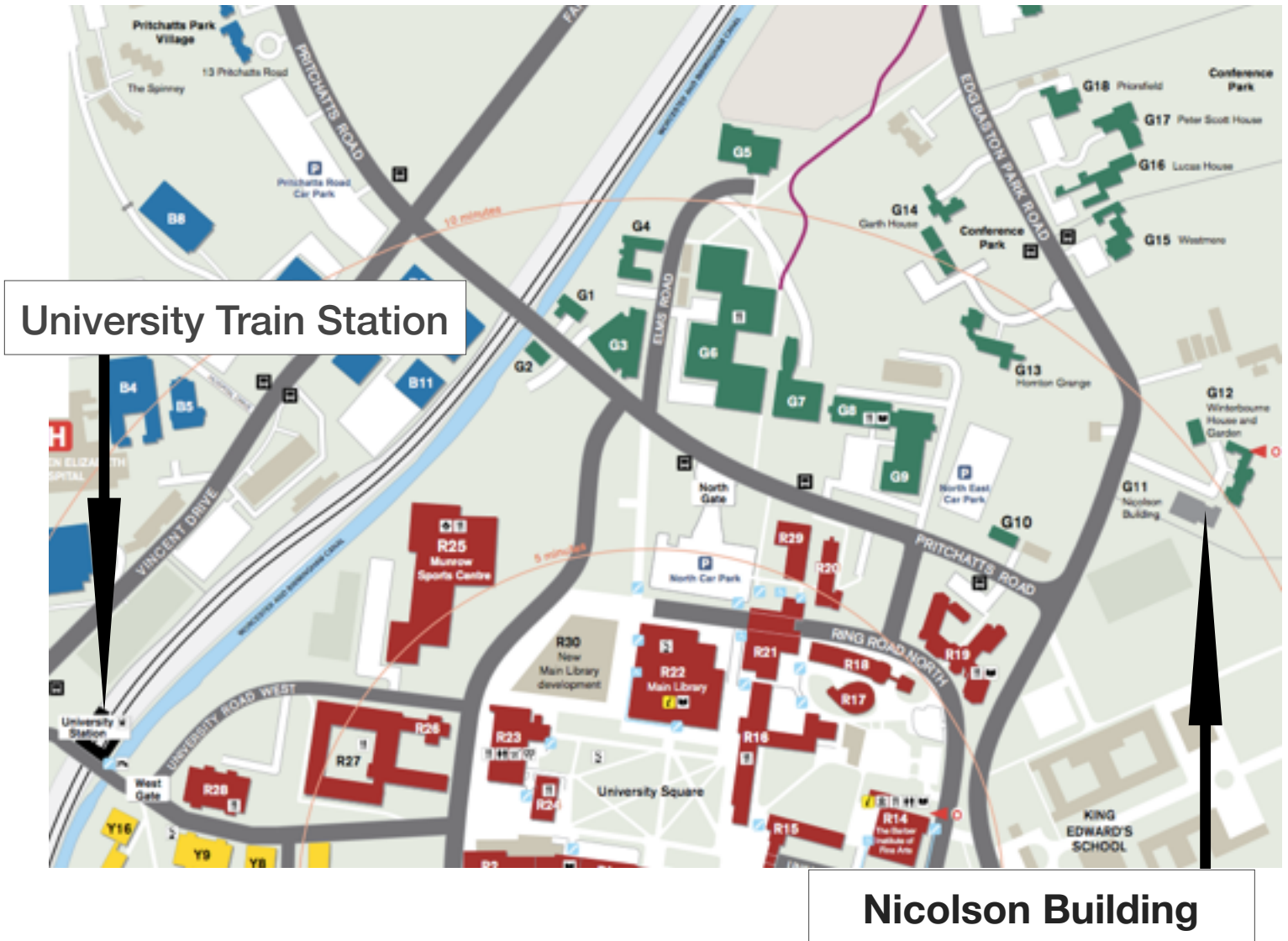
14.15 - Nicolas Rojas - Enhancing In-Hand Manipulation via Underactuated Morphologies

14.30 - Petar Kormushev - Robot Learning of Manipulation Skills + Kinematic-free Robot Control

14.45 - Very Short Plenary and Closing Remarks

15.00 - Time for informal meetings, collaboration and safe trips home

Directions



Rail:

University Rail Station is located on campus. Trains with a final destination of Longbridge or Redditch depart from Birmingham New Street to University every 10-20 minutes, it is the 2nd station.

On exiting the station turn left and descend the hill, cross campus and leave through the East Gate, turn left onto Edgbaston Park Road and continue until you reach Winterbourne House & Gardens on your right, the Nicolson building is located adjacent to the house.

Bus:

Buses depart regularly from the city centre. The 99 and the 98 stop on Edgbaston Park Road, near the Nicolson Building and buses 61, X62 and 63 stop on Bristol Road a 5 minute walk from the venue, via Edgbaston Park Road. Further information can be found at: <http://nxbus.co.uk/west-midlands/>.

Car:

Campus is located within easy reach of M5-Junction 4, M42-Junction 1 and M6-Junction 6. The postcode for Winterbourne House & Gardens is B15 2RT, free parking is available for conference delegates at Hornton Grange, a short distance past the conference venue on the left.