



# RoboVis 2014

## Australian National University, Canberra, ACT

Thursday 20 <sup>th</sup> November							
Science Teaching Building (136) STB S1(3.07) <a href="http://campusmap.anu.edu.au/">http://campusmap.anu.edu.au/</a>							
Time	Program						
9:30am	Arrival Coffee and Tea						
SESSION 1	NEW RESEARCH - Session Chair: Peter Corke, ACRV Director						
9:50am	Welcome and Introduction – Alex Zelinsky, Chair of ACRV's Advisory Committee						
10:00am	State of the Centre – Peter Corke, ACRV Director						
10:15am	Applications of robotic vision – Alex Zelinsky, Chief Scientist, DSTO						
10:45am	Kernels on manifolds for computer vision – Richard Hartley, CI, ANU						
11:00am	Morning Tea						
11:15am	Semantic scene understanding for robotic systems (SV theme) – Cesar Cadena, Research Fellow, UAdel						
11:30am	Computational imaging in robotics (RV & AA themes) – Don Dansereau, Research Fellow, QUT						
11:45am	Fine-tuning convolutional neural networks for nearest neighbour object detection (SV theme) – Stephen Gould, CI, ANU						
12:00noon	Really cool stuff happening at Monash – Tom Drummond, CI, AA Theme Leader, Monash						
12:15pm	Binary embedding methods for image retrieval (SV theme) – Guosheng Lin, Research Fellow, U Adel						
12:30pm	From vision to actions (VA & AA themes) – Juxi Leitner, Research Fellow, QUT						
12:45-1:45pm	Lunch						
SESSION 2	INDUSTRY APPLICATIONS - Session Chair: Rob Mahony, CI, VA Theme Leader						
1:45pm	Medical robotics – Jonathan Roberts, AI, QUT						
2:00pm	Some observations from a surprisingly long time transferring IP to industry – Anton van den Hengel, CI, UAdel						
2:15pm	Agricultural robotics – Tristan Perez, AI, QUT						
2:30pm	Afternoon Tea						
3:00pm	<table border="0"> <tr> <td>1. Sebastien Rougeaux (Seeing Machines)</td> <td>4. Nick Barnes (NICTA)</td> </tr> <tr> <td>2. David Austin (Madjinnovations)</td> <td>5. Stuart Morgan (Australian Institute of Sport)</td> </tr> <tr> <td>3. Tony Butt (CEA)</td> <td>6. Yi Li (NICTA)</td> </tr> </table>	1. Sebastien Rougeaux (Seeing Machines)	4. Nick Barnes (NICTA)	2. David Austin (Madjinnovations)	5. Stuart Morgan (Australian Institute of Sport)	3. Tony Butt (CEA)	6. Yi Li (NICTA)
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SESSION 3	OFFICIAL OPENING CELEBRATION						
4:00pm	Welcome to ANU ACRV node opening celebration (Rob)						
4:05pm	Welcoming ANU to the Centre (Peter)						
4:10pm	Professor Jenny Corbett, Pro Vice-Chancellor (Research & Research Training) to officially open the ANU ACRV node						
Walk to	Research School of Information Systems and Engineering RSISE (Building 115)						
4:30-5:30pm	Tour of ANU's new ACRV space with some posters and demonstration sessions						
5:30pm	Interstate travellers to check in to accommodation						
7:00pm	ACRV Dinner (A. Baker, 15 Edinburgh Avenue, Canberra ACT 2601) <a href="http://www.abaker.com.au">www.abaker.com.au</a>						



# RoboVis 2014

## Australian National University, Canberra, ACT

<b>Friday 21<sup>st</sup> November</b>	
<b>Science Teaching Building (136) STB S2 (3.02) <a href="http://campusmap.anu.edu.au/">http://campusmap.anu.edu.au/</a></b>	
<b>SESSION 4</b>	ACRV THEMES - Session Chair: Tom Drummond, CI, AA Theme Leader
<i>8:45am</i>	<i>Arrival Coffee and Tea</i>
9:00am	Welcome to Day 2 – Tom Drummond
9:10am	<i>Algorithms and Architecture (AA) Theme - Tom Drummond</i>
9:20am	<i>Robust Vision (RV) Theme - Peter Corke</i>
9:30am	<i>Semantic Vision (SV) Theme - Ian Reid</i>
9:40am	<i>Vision and Action (VA) Theme - Rob Mahony</i>
9:50am	Break into Themes and workshop how to address the key science challenges of each theme.
<i>10:30am</i>	<i>Morning Tea</i>
<b>SESSION 5</b>	ACRV THEMES cont'd - Session Chair: Each Theme Leader to chair a Theme Breakout
11:00am	Continue breakouts according to Theme and workshop how to address the key science challenges of each theme.
11:40am	Recombine groups with Theme leaders to each summarise key findings from Theme breakouts (up to 5 mins each with questions)
12:05pm	Outline potential interest groups and self-select for discussions over lunch
<i>12:10pm</i>	<i>Lunch – Interest Groups (ML, CV tools, datasets, code repositories)</i>
<b>SESSION 6</b>	ACRV Future Work - Session Chair: Ian Reid, CI, SV Theme Leader
1:10pm	<i>ACRV Publication policy, PhD candidates etc – Peter Corke</i>
1:25pm	<i>Hosting ACCV in 2018 – Richard Hartley, Ian Reid</i>
1:30pm	<i>Kialoa Summer School – Stephen Gould</i>
<i>2:00pm</i>	<i>Afternoon Tea/ Annual Report Photo</i>
2:30pm	All-in discussion on how to answer key science questions
3:30pm	Tangible Actions and Timelines e.g., a paper title (with authors) and the conference it will be submitted to, timeline of node visits
<i>4:00pm</i>	<i>Close – leave for airport for interstate travellers</i>