Hilton Bristow

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Publications

Dense Semantic Correspondence where Every Pixel is a Classifier
Hilton Bristow, Jack Valmadre and Simon Lucey
arXiv preprint, 2015

Regression-Based Image Alignment for General Object Categories
Hilton Bristow and Simon Lucey
Chapter in *Dense Correspondences in Computer Vision*
Springer SBM, 2015

Why do Linear SVMs Trained of HOG Features Perform so Well?
Hilton Bristow and Simon Lucey
arXiv preprint, 2014

Optimization Methods for Convolutional Sparse Coding
Hilton Bristow and Simon Lucey
arXiv preprint, 2014

Fast Convolutional Sparse Coding
Hilton Bristow, Anders Eriksson and Simon Lucey
International Conference on Computer Vision and Pattern Recognition (CVPR),
2013

V1-Inspired Features Induce a Weighted Margin in SVMs
Hilton Bristow and Simon Lucey
European Conference on Computer Vision (ECCV), 2012

Education

Doctorate of Philosophy, Computer Vision (ongoing)   **Brisbane, Australia**
Queensland University of Technology   2011-2015
"Representation and Registration in Computer Vision"
Supervised by Dr Simon Lucey and Dr Sridha Sridharan

Bachelor of Engineering, Mechatronics   **Brisbane, Australia**
The University of Queensland   2007-2010
Awarded the University Medal
GPA 6.834/7.00
EPSA Dean's Excellence Medal

Townsville Grammar School   **Townsville, Australia**
OP (Overall Position) 1   2002-2006
Dux of the School
Head Boy

Scholarships	**Supervisor Scholarship** Queensland University of Technology ($25,000 p.a.)	2015
	Australian Postgraduate Award ($25,000 p.a.)	2011-2014
	Faculty of Engineering Scholarship Queensland University of Technology ($1,5000 p.a.)	2011-2014
	Deputy Vice-Chancellor's Initiative Scholarship Queensland University of Technology ($6,000 p.a.)	2011-2014
	EPSA Dean's Excellence Scholarship University of Queensland ($5,000 p.a.)	2007-2010
	Academic Partial Scholarship Townsville Grammar School ($2,500 p.a.)	2002-2006

Internships	**Visiting Scholar, The Robotics Institute** Carnegie Mellon University	**Pittsburgh, USA** 2014-2015
	Google Summer of Code Matlab code generator for the OpenCV project Matlab mex "compiler" with automatic gateway generation	**Brisbane, Australia** Summer 2013
	Intern, Willow Garage Implementation of Deformable Parts Models in C++ ROS and ECTO bindings Contributed code and patches to OpenCV	**Silicon Valley, USA** Summer 2012
	Intern, Thinking Systems University of Queensland Biologically inspired SLAM in C++ and CUDA	**Brisbane, Australia** Summer 2010

Teaching	**Robotics and Mathematics Tutor** University of Queensland Lab tutor for second year Mechatronics design project Classroom tutor for first year Mathematics subject	**Brisbane, Australia** 2009-2010

Programming	Python, C++, Matlab
Web Design	Django, Zurb Foundation, Polymer (obligatory html, CSS, Javascript)
Typesetting	LaTeX

Referees	**Dr Simon Lucey, PhD Supervisor** ☏ +1 (412) 294-3659 ✉ slucey@cs.cmu.edu
	Vincent Rabaud, Willow Garage Supervisor ✉ vincent.rabaud@gmail.com