NICTA

NICTA ANU SUMMER SCHOLAR PROJECTS – 2012-13

Title	Supervisor	Research Area
Automatic Text Segmentation	Dr Wray Buntine	Machine Learning
Building Agents that Learn to Play Games	Dr Scott Sanner	Machine Learning
Chronicles vs. Conflicts vs. ARR	Dr Alban Grastien	Optimisation
Decision-Theoretic Planning via Boolean Satisfiability (only for undergraduates)	Dr Scott Sanner Dr Charles Gretton	Machine Learning
EternityII: Solving Edge Matching Puzzles	Professor Sylvie Thiebaux	Optimisation
Geometric Soft-Constraints for Pragmatic Vehicle Routing	Dr Charles Gretton Dr Phil Kilby	Optimisation
How do people tag pictures?	Dr Lexing Xie	Machine Learning
Learning Bad Action Choices in Heuristic Search Planning	Professor Sylvie Thiebaux	Optimisation
Making Sense of Visual Folksonomy: a Flickr Study	Dr Lexing Xie	Machine Learning
Making the Most of Multiple Batteries	Professor Sylvie Thiebaux	Optimisation
Mars Rovers and Traffic Controllers	Dr Scott Sanner	Machine Learning
Media Geolocation and Google Maps Visualization	Dr Scott Sanner	Machine Learning
Multimedia Event Detection from Videos	Dr Lexing Xie	Machine Learning
Natural Language Query Answering from Wikipedia	Dr Scott Sanner	Machine Learning
Planning a Story	Dr Patrik Haslum	Optimisation
Scalable Relational Kernels for Data Mining	Dr Scott Sanner	Machine Learning
Social Text Mining for Blogs, Tweets and Facebook	Dr Scott Sanner	Machine Learning
Stochastic Local Search for SAT Encodings of Planning Problems	Dr Patrik Haslum Dr Charles Gretton	Optimisation
Tracking viral videos on Youtube	Dr Lexing Xie	Machine Learning
Unsupervised Part-of-Speech Training with Non-parametric Methods	Dr Wray Buntine	Machine Learning
Algorithms and scene representations to facilitate mobility with a Bionic Eye	Dr Chris McCarthy	Computer Vision – Bionic eye
Control System Security (PhD, Masters, Summer Scholar, Honours Projects etc.)	Dr Adrian Bishop	Control and Signal Processing
3D Modelling from a hand-held web-camera	Hongdong Li	Computer Vision
Cooperative Self-Localization of Mobile Agents (Masters, Summer Scholar, Honours, Engn R&D Projects etc.)	Dr Adrian Bishop Professor Brian Anderson	Control and Signal Processing

Title	Supervisor	Research Area
Large-scale Distributed Data Fusion	Dr Lars Petersson	Computer Vision
Road Side Object Classification in Video+Point-Cloud Data+Hyperspectral Data	Dr Lars Petersson	Computer Vision
Robust Object Association in Large-scale Mapping Applications	Dr Lars Petersson	Computer Vision
Android Security	Dr Andreas Bauer	Software Systems
Finding Models of Unsolvable First Order Goals	Dr Michael Norrish Dr Peter Baumgartner	Software Systems
Reasoning about business operations	Dr Andreas Bauer Dr Peter Baumgartner	Software Systems
Control System Security (PhD, Masters, Summer Scholar, Honours Projects etc.)	Dr Adrian Bishop	Control and Signal Processing
Cooperative Self-Localization of Mobile Agents (Masters, Summer Scholar, Honours, Engn R&D Projects etc.)	Dr Adrian Bishop Professor Brian Anderson	Control and Signal Processing