

SUMMER VACATION SCHOLARSHIP PROJECTS – 2011-12

No	Project Title	Supervisor	Coll Supervisor
N1	Measuring Cognitive Load Using Eye Movement Features	Fang Chen	Vera Chung
N2	Cognitive Load Measurement Based on EEG Signals	Eric Choi	Rafael Calvo
N3	It's all in the wrist: Automating Analysis of Pen Gesture for Cognitive Load Detection	Natalie Ruiz	Fang Chen
N4	Galvanic Skin Response and Cognitive Load: Exploring things that make us break out in a sweat	Natalie Ruiz	Fang Chen
N5	Giving each a helping hand - Gesture and Interactive Multi-touch in Collaborative Teams	Natalie Ruiz	Fang Chen
N6	Cognitive Load Measurement via Speech for Teams	Fang Chen	Bo Yin/Natalie Ruiz
N7	Cognitive Computing for Brain Computer Interface (BCI)	Yang Wang	Fang Chen
N8	Measuring mental capacity from sheer muscle strength	Ronnie Taib	Natalie Ruiz
N9	How well do you think you move? - An analysis of gesture perception under high cognitive load	Ronnie Taib	Natalie Ruiz
N10	Video streaming on the Internet: What is the impact of YouTube?	Anirban Mahanti	Sebastien Ardon
N11	Automated Network Measurements Packager	Sipat Triukose	Anirban Mahanti
N12	Modelling Topic Diffusion on Twitter	Sebastien Ardon	Anirban Mahanti
N13	Measuring Elasticity of Cloud Computing Platforms	Anna Liu	Alan Fekete
N14	Automatic Monitoring, Tuning, and Control of Cloud Computing Platforms	Anna Liu	Alan Fekete
N15	More Efficient Componentised Operating Systems	Ihor Kuz	
N16	Hardware Devices as Operating System Components	Ihor Kuz	
N17	Secure Software-Based Rootkit Detection	Ihor Kuz	Toby Murray
N18	Embedded. Real Time & Operating Systems	Ihor Kuz	
N19	Modelling of I/O Devices for Automatic Device-Driver Synthesis	Leonid Ryzhyk	Adam Walker
N20	Reliable Device Driver Framework for Linux	Leonid Ryzhyk	Sindey Amani
N21	Enhancing models of a Wireless Sensor Network Simulator (a large open-source project)	Athanassios Boulis	
N22	Enabling an active online community with innovative web services	Athanassios Boulis	
N23	Testing communication protocols in a real sensor network deployment	Athanassios Boulis	
N24	Universal boot loader for embedded systems	Gernot Heiser	Peter Chubb
N25	Worst-case timing model of a modern embedded processor	Gernot Heiser	Bernard Blackam