

Department of Computer Science  
University of York  
MSc SWE project presentations - 2011  
Room CSE/083

Wednesday 21<sup>st</sup>, September

Session 1 ( 9:15 – 11:00 )  
Session chair: Dr. Manuel Oriol

Time	Student	Project Title
9:15	Antony James (IJB)	Increasing the Throughput of Search Algorithms using Parallel and Distributed Processing
9:30	Ankit Verma (FZ)	Mechanising Programs in Isabelle/HOL
9:46	Jingqiu Hao (ALCC)	Modelling of control systems: automatic generation of models
10:00	Lalkhumsanga (FZ)	Formal Models of Safety-Critical Java
10:15	Marcin Mazurek (AJW)	Implementing The RTSJ Asynchronous Event Handling Model in Ada
10:30	Yi Yang (AMW)	Model Checking RTSJ Programs using Java Pathfinder
10:45	Sonia Xavier (IK)	Detecting emotions in Text

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Wednesday 21<sup>st</sup>, September

Session 2 ( 11:30 – 13:15 )

Session chair: Dr. Tim Kelly

Time	Student	Project Title
11:30	Nihat Onder (DP)	A New User Interface for the GP Editor
11:45	Yunxiao Zhong (AJW)	Implementing the Safety Critical Subset of the RTSJ and JPF
12:00	Antonios Chatzimarkos (DKOL)	A Textual Language for Modular Metamodel Specification
12:15	Yishu Liu (TY)	Developing a Computerised System for Educational Debate
12:30	Guanshan Liu (DK)	Multi-agent Conquest of Mars
12:45	Arijit Mukherjee (IH)	Architectural Tactics for Information Assurance in Critical Infrastructures
13:00	Stephen Bartlett (AJW)	Real-Time Concurrency Utilities

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Wednesday 21<sup>st</sup>, September

Session 3 ( 15:00 – 16:30 )

Session chair: Dr. Dimitris Kolovos

Time	Student	Project Title
15:00	Dhana Sekar Subbiah Pandi (MO)	York Extendible Testing Infrastructure (YETI): Improving the Java Binding
15:15	Aristeidis Apostolakis (GD)	Model Driven Editor Support for Dependability Case Development
15:30	Ehsan Yazdan Panah (MO)	York Extendible Testing Infrastructure (YETI): Main architecture
15:45	James Mistry (JCPW)	Extending FreeRTOS to a dual-processor FPGA
16:00	Christos Evripidou (DK)	Reinforcement Learning for Lego Mindstorm Robots
16:15	Simos Gerasimou (DK)	Reinforcement Learning for the Super Mario Game

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Thursday 22<sup>nd</sup>, September

Session 1 ( 9:15 – 10:45 )  
Session chair: Dr. Tommy Yuan

Time	Student	Project Title
9:15	Sagar Shinde (MO)	From Assertions to Code
9:30	Haoliang Wu (XG)	Model Transformation of PNML from Business Process Model
9:46	Xiongbo Chen (SLB)	Skeletonizing the worm
10:00	Gopinath Setivarahalli (RDA)	Simulation-based Hazard Analysis for Autonomous Robots
10:15	Tomcy Kuruvilla (CB)	Code Profiling of Floating Point Unit Behaviour
10:30	Vibhor Agarwal (DK)	Engineering and modular Implementation of Reinforcement Learning Techniques

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Thursday 22<sup>nd</sup>, September

Session 2 ( 11:15 – 12:45 )

Session chair: Dr. Stefano Pirandola

Time	Student	Project Title
11:15	Vipin Radhakrishnan Menon (DKOL)	Automated development of graphical model editors
11:30	Song Shang (HP)	Finding our place in time: Interfaces for understanding digitized documents for historians
11:45	Hui Wang (JCPW)	Tokeneer in VDM
12:00	Brayan Melroni (CP)	Technology Personalization for Cooking
12:15	Bharat Madan (AMW)	Tabla Auraliser
12:30	Athanasios Zolotas (GD)	Mitigating Legacy Online Communities to Modern Web-based Content Management Systems

Department of Computer Science  
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MSc Comp project presentations - 2011  
Room CSE/103

Wednesday 21<sup>st</sup>, September

Session 1 ( 9:15 – 11:00 )  
Session chair: Prof. John Clark

Time	Student	Project Title
9:15	Adewale Ajiboye (JC)	Part of speech tagging using PRISM
9:30	Sourabh Pujari (AB)	An Analysis of blocking terms in EDF analysis
9:46	Abhimanyu Markan (RD)	RTOS Benchmarking
10:00	Nikhil Shanbag (MJF)	Evaluating embedded operating systems
10:15	Abhijit Sawant (AMW)	Vistas: Implementation using the Meta-Object Protocol
10:30	Parul Bali (RD)	Investigation of the sub-optimality of fixed priority scheduling using search techniques
10:45	Soumya Sudhakar (MO)	York Extendible Testing Infrastructure (YETI): Adding an Eiffel Binding

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MSc Comp project presentations - 2011  
Room CSE/103

Wednesday 21<sup>st</sup>, September

Session 3 ( 15:00 – 16:45 )

Session chair: Dr. Leandro Indrusiak

Time	Student	Project Title
15:00	Wei Chen (AJW)	Safety Critical Java and Simple RTJ
15:15	Srikanth Kottaparambath (AGB)	Image super-resolution from video streams
15:30	Averkios Sigalas (DKOL)	Persistence of EMF models using NoSQL database management systems
15:45	Dahirou Abdoulaye Samir (JCPW)	Comparing UPPAAL, FDR2, and SPIN
16:00	Sunayana Kalla (HP)	Fun from bad pictures: Providing descriptions of images on the Web for visually impaired people
16:15	Yue Wang (TY)	Agent-assited Dialogue-based Argument Criticism
16:30	Santhosh Kumar Udayakumar (ADNE)	Future-proof storage of anthropological photographs

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Thursday 22<sup>nd</sup>, September

Session 3 ( 12:30 – 14:30 )

Session chair: Dr. Daniel Kudenko

Time	Student	Project Title
12:30	Apostolos Stergiakoulis (FACP)	Multi-lane rowing: umpiring trainer: usability and interface extension
12:45	Marlen Mynzhassar (TY)	Computer Supported Collaborative Argumentation on the Web
13:00	Piyawat Lamsam (JCPW)	Verifying FreeRTOS
13:15	Satish Maramreddy (ADNE)	Anthropology in the Cloud
13:30	Wenwen Cai (TY)	Interactive Verification of Railway Interlocking Systems
13:45	Saikiran Bundola Mohan (CP)	Intergenerational Messaging through Home Technology
14:00	Glyn Faulkner (CR)	Improving primitive redex speculation for the Reduceron
14:15	Sirajo Shehu (JLJ)	Translations of Alloy to Declarative Languages



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MSc NC project presentations - 2011  
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Wednesday 21<sup>st</sup>, September

Session 2 ( 11:30 – 12:45 )

Session chair: Dr. Sam Braunstein

Time	Student	Project Title
11:30	Benjamin Henson (AMT)	Designing Digital Systems using Cartesian Genetic Programming and VHDL
11:45	Anna Ladi (JT)	Efficient Search for Objects of Interest using Swarm Robotics
12:00	Michal Nebes (JT)	Self-repairing Collective Robotic Systems
12:15	Robert Meyer (SOK)	Fuzzy reasoning with a neural network
12:30	Yiwen Fu (JC)	Computing the tree width of graphs

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MSc IT project presentations - 2011  
Room CSE/082

Wednesday 21<sup>st</sup>, September

Session 1 ( 9:15 – 10:45 )

Session chair: Dr. Simon O’Keefe

Time	Student	Project Title
9:15	Christos Kourouniades (AB)	Tool Support for Time Bands
9:30	Zhan Huang (RDA)	An Automarking System for Programming Assessments
9:46	Richard Merry (IJB)	Understanding the Behaviour of Large Ad-Hoc Networks
10:00	Dimosthenis Fountoukos (DKOL)	Evaluating the level of support in open-source projects through newsgroup analysis
10:15	Qian Sun (HP)	Cognitive stroll through: improving the effectiveness and efficiency of cognitive walkthrough
10:30	Taixuan Wan (FACP)	Agent simulation of large scale complex IT systems

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Wednesday 21<sup>st</sup>, September

Session 3 ( 14:45 – 16:15 )

Session chair: Dr. Rob Alexander

Time	Student	Project Title
14:45	Sheng Yu (PIRS)	Web-based application in controlling coursework/project for students
15:00	Rui Yuan (SOK)	Reaction-diffusion chemistry simulator
15:15	Rasool Kazemi (ADNE)	Using Ajax to improve tag-based retrieval
15:30	Kairat Yegeuov (PIRS)	Web-based software for IQ testing
15:45	Swetha Poosarla (PIRS)	Scientific Chat Application
16:00	Qiuyang He (HP)	Computer-based support for people with dyslexia

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Thursday 22<sup>nd</sup>, September

Session 4 ( 15:00 – 16:30 )

Session chair: Dr. Ian Benest

Time	Student	Project Title
15:00	Yi Gu (ERH)	Combining Photometric Stereo and Polarisation
15:15	Jonathan Wainwright (DP)	Graphs in LaTeX: Translating the Graph Style to TikZ
15:30	Bilal Bugaje (SLB)	Scale-free boids
15:45	Xiang Xu (JC)	Finding clauses
16:00	Bo Wu (SLB)	Causal wavelets for analysis of sound
16:15	Yi Gu (ERH)	Combining Photometric Stereo and Polarisation

Department of Computer Science  
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MSc GTC and SCSE project presentations - 2011  
Room CSE/082

Wednesday 21<sup>st</sup>, September

Session 2 – MSc GTC ( 12:15 – 13:00 )

Session chair: Dr. Ibrahim Habli

Time	Student	Project Title
12:15	John Fox (CP)	What more do we get from Interaction Walkthroughs?
12:30	James Singleton (MJF)	Student defined project 1
12:45	Stuart Binyon (DJP)	Partitioning Strategies for Reducing Recertification Costs of Engine Control Systems

Session 2 – MSc SCSE ( 13:00 – 14:00 )

Session chair: Dr. Ibrahim Habli

13:00	Simon Whiteley (AR)	Fine Grained Risk Assessment
13:15	Christopher Lyons (AR)	Where Should We put Safety Engineering Skills Within Organisations
13:30	Neil Barton (AR)	Identified but Improperly Treated Hazards as a Threat to Safety
13:45	John Bedford (MN)	Importance of Programming Language Selection for Model-Based Development

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MSc SCSE project presentations - 2011  
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Thursday 22<sup>nd</sup>, September

Session 3 ( 15:15 – 17:00 )

Session chair: Dr. David Pumfrey

Time	Student	Project Title
15:15	Christopher Wilson (IH)	Development of a Core Safety Argument for Multi-Service Defence Systems
15:30	John Findley (IH)	Software Safety: Reengineering the Assurance Case from Compliance with Prescriptive Certification
15:45	Brian Martin (MN)	Zonal Hazard Analysis on Legacy and New Built Aircraft
16:00	Kurt Canfield (AR)	Assessment of Functional Safety Boundaries in the Nuclear Industry
16:15	George Krezias (AR)	Simplicity Versus Detail in the Presentation of Safety Arguments
16:30	Geoffrey Douthwaite (MN)	Trials safety

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MSc GTC project presentations - 2011  
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Thursday 22<sup>nd</sup>, September

Session 4 ( 15:00 – 16:15 )

Session chair: Dr. Mark Nicholson

Time	Student	Project Title
15:00	Matthew Bennion (IH)	Addressing the Assurance Requirements of Automated and Model-Driven Software Engineering in DO178C
15:15	Peter Bowley (IH)	The Safety View in Systems Engineering Modelling: A SysML Approach
15:30	Mark Critchard (MO)	Development of a System to be used for Automated Generation of Portable Test Scripts
15:45	Jason Hampson (DKOL)	Domain Specific Design Languages & Code Generation for HIRTS
16:00	Juey Hian Teo (MN)	Safety framework for conducting ground to air trials of Direct Energy Weapon

Department of Computer Science  
University of York  
MSc HCIT/SIIT project presentations - 2011  
Room CSE/082

Thursday 22<sup>nd</sup>, September

Session 1 ( 9:15 – 10:45 )  
Session chair: Dr. Paul Cairns

Time	Student	Project Title
9:15	Adamu Babajo (HP)	Evaluation at a distance: remote collaborative heuristic evaluation
9:30	Qiushuang Wang (ADNE)	Route-finding for blind people using interactive tactile maps
9:45	Niyue Tan (HP)	How fun is your mobile?: Measuring user experience in mobile interaction
10:00	Chenju Venugopal (ADNE)	Make it more web 2.0
10:15	Mohammed Elsherif (ADNE)	Age, culture and technology
10:30	Adam Roethenbaugh (CP)	Interaction Interrupted: Flow and Multitasking



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Thursday 22<sup>nd</sup>, September

Session 2 ( 11:00 – 12:30 )  
Session chair: Prof. Helen Petrie

Time	Student	Project Title
11:00	Nur Mohamad Yazid (PC)	The social aspect of immersion in videogames
11:15	Zuzanna Michalska (PC)	Using YouTube to understand the gaming experience
11:30	Christina Vasiliou (PC)	Evaluating errors through videogames
11:45	Jia Yi Gu (CP)	Feeling your way through history: Gestures for Interacting with Art and Cultural Artifacts
12:00	Alex Vaughan (PC)	Immersion in games and time perception
12:15	Jose Calderon (SLB) – MSc NC	Quantum dots as biosensors