

University of Manchester, School of Computer Science
2011 Research Student Symposium: Poster Session



Wednesday 2nd November, Lower First, 11:00–14:00

| <i>Name</i> | <i>Title</i> |
|-----------------------|--|
| Javid M Akhter | Diagnosing Faults in Embedded Queries |
| Abdullah Alnajem | Risk-Aware Dynamic Authentication for Mobile Banking |
| Majed Alsabaan | Pronunciation Support for Arabic Learners |
| Iman Alsharhan | Exploiting phonological constraints to improve the performance of Arabic speech understanding system |
| Tahani Alsubait | Ontology-based Intelligent Tutoring Systems |
| Xin Bao | Sketch-Based Intuitive 3D Modeling |
| Hassan Bashir | Hybrid Evolutionary Computation for Continuous Optimization |
| Nargis Bibi | Adaptive HARQ for Non-Linear Distortion of OFDMA Signals |
| Georgios Charopoulos | Speech Emotion Analysis, Detection and Recognition |
| Klitos Christodoulou | Pay-as-you-go Data Integration Over Linked Open Data |
| Timothy Clark | Recoupling Data and Information in Bioscience: A Sociotechnical Patterns Approach |
| Alex Constantin | <i>“You Will Like This Poster”</i> |
| Geraint Duck | Extraction and Representation of <i>in silico</i> Biological Methods from the Literature |
| David Fox | Dynamic Demand Modelling and Pricing Decision Support Systems for Petroleum |
| Francesco Galluppi | Information Representation on a Universal Neural Chip |
| Peter Glaus | Estimating differential expression of transcripts with RNA-seq by using Bayesian Inference |
| Darren Hau | Speech Information Component Analysis using Biologically Inspired Deep Learning |
| Mohammad Khodadadi | Blocking and Refinements for Automatically Generated Tableau Provers |
| Roman Krenicky | Formal Methods Towards a 2-Categorical Notion of Proof Equality |
| Danielius Kudinskas | Improving Hypervisors with Dynamic Code Generation |
| Qinan Lai | A Behavioural Semantics Framework for Domain Specific Language |
| Keletso Letsholo | Assessing the Modeling Capabilities of BPMN |
| Don Liyanage | CBR Adaptation with Artificial Neural Networks |
| Claudiu Mihaila | Event-based Recognition of Causality in the Biomedical Domain Using Textual Entailment |
| Fabio Papacchini | Minimal Model Reasoning |
| Zoya Pourmirza | The Communication Network Architecture for the Smart Grid |
| Giles Reger | Inferring Parametric Specifications |
| Myrna Rodriguez Frias | Electromagnetic Spectrum-Aware Unmanned Vehicle |
| Yanti Rusmawati | A Formal Framework for Describing and Reasoning about Dynamic Networks |
| Arsalan Sadri | Web Service Composition |
| Petch Sajjacholapunt | An Innovative Framework for the Interactive Visualisation of the Semantic Web |
| Alan Stokes | An Autonomic Approach to Resilience in Sensor Network Query Processing |
| Raymon White | The Navier-Stokes Equations with Non-standard Boundary Conditions |

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2011 Research Student Symposium: Group Sessions at a Glance

All Talks in Kilburn 2.19; Poster Session in the Lower First area

| | Tuesday 1st Nov | Wednesday 2nd Nov | Thursday 3rd Nov |
|-------|-----------------|-------------------|------------------|
| 09:00 | SSG | MLO | AIG |
| 09:30 | IMG | NEST | APT |
| 10:00 | | | |
| 10:30 | Break | Break | Break |
| 11:00 | Keynote | Posters | IMG |
| 11:30 | | | |
| 12:00 | Prizegiving | | |
| 12:30 | Lunch | Buffet Lunch | Lunch |
| 13:00 | | | |
| 13:30 | FM | | IMG |
| 14:00 | | Break | |
| 14:30 | – | APT | Break |
| 15:00 | – | | TM |
| 15:30 | – | | |
| 16:00 | – | – | |

Key to Groups:

| | |
|------|---|
| AIG | Advanced Interfaces |
| APT | Advanced Processor Technologies |
| FM | Formal Methods |
| IMG | Information Management |
| MLO | Machine Learning and Optimization |
| NEST | Nano Engineering and Storage Technologies |
| SSG | Software Systems |
| TM | Text Mining |

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2011 Research Student Symposium: Session Chairs at a Glance

All Talks in Kilburn 2.19; Poster Session in the Lower First area

| | Tuesday 1st Nov | Wednesday 2nd Nov | Thursday 3rd Nov |
|-------|---------------------------|-----------------------|-------------------------|
| 09:00 | Eleni Mikroyannidi | Craig Barton | Matthew Orlinski |
| 09:30 | | | |
| 10:00 | | | |
| 10:30 | Break | Break | Break |
| 11:00 | Jim Miles | | Samantha Bail |
| 11:30 | | | |
| 12:00 | Prizegiving | | |
| 12:30 | Lunch | Buffet Lunch | Lunch |
| 13:00 | | | |
| 13:30 | Rebekah Carter | | Sadia Saleem |
| 14:00 | | Break | |
| 14:30 | – | A. Kleerekoper | Break |
| 15:00 | – | | Raheel Nawaz |
| 15:30 | – | | |
| 16:00 | – | – | |

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Programme of Talks - All Talks in Kilburn 2.19

Tuesday 1st November

*Student Prizes
sponsored by



| Time | Group | Presenter | Title |
|-------|-------|--------------------|--|
| 09:00 | SSG | Petr Stepan | Design Patterns as Composite Connectors in Component-based Software Development |
| 09:30 | IMG | Aqeel Al-Naser | Parallelised Data Interaction and Visualization Applied to Subsurface Exploration Datasets |
| 10:00 | IMG | Eleni Mikroyannidi | Abstraction Methods for Ontology Comprehension |
| 10:30 | | | break |
| 11:00 | | | Keynote Talk: Prof. Achim Jung |
| 12:00 | | | Prizegiving* |
| 12:30 | | | lunch |
| 13:30 | FM | Maytham Alabbas | ArbTE: Arabic Textual Entailment |
| 14:00 | FM | Rebekah Carter | Proving Liveness in Hybrid Dynamical Systems |

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Programme of Talks - All Talks in Kilburn 2.19

Wednesday 2nd November

| Time | Group | Presenter | Title |
|-------|-------|---------------------|---|
| 09.00 | MLO | Jonathan Roberts | Adaptive Procedural Content Generation in Video Games |
| 09.30 | NEST | Georg Heldt | Exploration of Bit Patterned Media for Future Storage Technologies |
| 10.00 | NEST | Craig Barton | In-Situ Anisotropy Tuning of Co/Pd Multilayers |
| 10:30 | | | break |
| 11:00 | | | Posters in Lower Floor area (Buffet Lunch) |
| 14:00 | | | break |
| 14.30 | APT | Thomas Sharp | Real-Time Simulation of Detailed Cortical Microcircuits on SpiNNaker |
| 15.00 | APT | Martin Grymel | Cyclic Codes for Error Correction |
| 15.30 | APT | Anthony Kleerekoper | DECOR: Degree Constrained Routing for Lifetime Maximisation in Wireless Sensor Networks |

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Programme of Talks - All Talks in Kilburn 2.19

Thursday 3rd November

| Time | Group | Presenter | Title |
|-------|-------|----------------------|---|
| 09:00 | AIG | Muhammad Raza Ali | Multiuser Gesture Recognition System Based on Skin Colour and Optical Flow |
| 09:30 | APT | Sergio Davies | A Forecast-based Biologically Plausible STDP Learning Rule |
| 10:00 | APT | Matthew Orlinski | Community Detection in Packet Switched Networks |
| 10:30 | | | break |
| 11:00 | IMG | Rafael Goncalves | Impact Analysis in OWL Ontologies |
| 11:30 | IMG | Chiara Del Vescovo | The Modular Structure of an Ontology: Atomic Decomposition |
| 12:00 | IMG | Samantha Bail | Multiple Justifications in OWL Ontologies |
| 12:30 | | | Lunch |
| 13:30 | IMG | Peter McNerney | Integrating Security and Quality of Service in Internet-based Mobile Ad Hoc networks |
| 14:00 | IMG | Sadia Saleem | A Risk-Aware Workload Scheduler to Support Secure and Efficient Collaborative Data Transfer in Mobile Communities |
| 14:30 | | | break |
| 15:00 | TM | George Karystianis | Using Text Mining to Explore Concept Complexity in Obesity through Concept Maps |
| 15:30 | TM | Riza Batista-Navarro | Adapting the Cluster Ranking Supervised Model to Resolve Coreferences in the Drug Literature |
| 16:00 | TM | Raheel Nawaz | Contradictions in Biomedical Research Literature: An Event-Based Approach |