# Sicsa\* The Scottish Informatics & Computer Science Alliance

7th Annual PhD Conference — 24–25 June 2015

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# Schedule at a glance

#### Day 1

09:30 Registration 10:30 Opening address, keynote 1 11:50 Lunch, posters 12:45 Workshops 15:00 Activities 17:00 Buses to accommodation 18:30 Buses to City Chambers 19:30 Reception in City Chambers

#### Day 2

08:00 Buses to breakfast 09:30 Registration 10:00 Workshops 12:15 Keynote 2 13:15 Lunch, posters 14:15 Workshops 15:50 Prizegiving 17:00 End of conference

# 24–25 June 2015 1 Introduction Dr Craig Macdonald, Conference Chair

On behalf of SICSA and the organising committee, I would like to welcome you to the 7th Annual SICSA PhD Conference at the University of Glasgow.

The student organisation committee has put together an excellent and varied programme of events for this year's conference, bringing together experts from academia, industry, as well as professional facilitators, to help PhD students achieve successful research and cater for their career aspirations.

This year, we have used Vitae's Researcher Development Framework to structure our offerings to students at the conference. In addition to the traditional student poster session, we also have workshop sessions on Networking, Employability, Publications, Scientific Collaboration, Presentation Skills & Skills for Start-ups.

We are delighted to welcome two very distinguished keynote speakers to this year's conference, who will share their work, knowledge and experience with us. Moreover, we are pleased to have social events that allow the participants to really experience the best of Glasgow.

The student committee has worked hard, with tremendous support from the SICSA administrative team, to plan and organise these events. It is impressive that a small group of committed individuals can achieve so much while also carrying out their normal everyday activities. I would also like to mention other organisations that have supported the PhD conference this year; namely our sponsors Microsoft Research, and Glasgow City Marketing Bureau.

I hope you enjoy your visit to Glasgow, and can benefit from the opportunities to engage with everyone around you.

> Craig Macdonald Academic Chair, 2015.

#### #sicsaconf15

As with all major SICSA events, there will be a photographer and film-maker present at SICSA PhD Conference 2015. The resulting images and films will feature on the SICSA webs site and with future event publicity. If you do not wish to feature in the final images or films, please notify a member of SICSA staff.

Thanks to the generous support of our sponsor, Microsoft Research:

# Microsoft Research

# Keynote 1: Lessons Learned From Building Big Data Systems at Twitter

Time:10:40-11:40, day 1Location:Western Infirmary Lecture Theatre (map: B9)

I spent an extended sabbatical at Twitter from 2010-2012 working on analytics infrastructure to support data science and services designed to surface relevant content to users. During this time, Twitter's Hadoop data warehouse grew from dozens of nodes to tens of thousands of nodes across multiple datacenters, ingesting tens of terabytes daily from dozens of heterogeneous sources. I also had the opportunity to contribute to a variety of data products, including real-time search and Twitter's WTF recommendation service.

In this talk, I will attempt to distill my experiences working on "big data" systems into a series of high-level "lessons learned", and then try to connect these lessons to academic research. I'll present a few interesting research directions and discuss my views about the evolving roles of academic and industrial research.

# **Professor Jimmy Lin**

Professor Jimmy Lin is an associate professor in the iSchool at the University of Maryland, with appointments in the Institute for Advanced Computer Studies (UMIACS) and the Department of Computer Science. He joined the faculty in August 2004, shortly after completing a Ph.D. in Electrical Engineering and Computer Science at MIT, and was promoted to associate professor in March 2009.



Professor Lin works on "big data", with a particular focus on large-scale distributed algorithms for text processing. His

research lies at the intersection of natural language processing (NLP) and information retrieval (IR). He is a member of both the Computational Linguistics and Information Processing Lab (CLIP) and the Human-Computer Interaction Lab (HCIL).

From 2010-2012, Professor Lin spent an extended sabbatical at Twitter, where he worked on services designed to surface relevant content to users and analytics infrastructure to support data science. Professor Lin has also consulted for Cloudera, an enterprise Hadoop company, where he was largely responsible for starting Cloudera's Hadoop training and certification programs.

Professor Lin's popular textbook "Data-Intensive Text Processing with MapReduce" introduced the notion of "design patterns" for MapReduce algorithms and serves as a starting point for many subsequent innovations in the field. Time:12:15-13:15, day 2Location:Western Infirmary Lecture Theatre (map: B9)

The story of the web as we know it and the underlying technologies, tracing its roots back as far as Vannevar Bush's 1945 article describing his idea for a "Memex" device for storing and retrieving linked pieces of information, through to a rejected conference paper by Tim Berners-Lee proposing a "World Wide Web".

# Ian C Ritchie CBE, FREng, FRSE, FBCS

Ian Ritchie is the non-executive Chairman of Iomart plc, Computer Applications Service, the Interactive Design Institute, Cogbooks, and Red Fox Media. He founded OWL in 1984 which pioneered hypertext application development (a forerunner to the world wide web) and sold the company to Panasonic in 1989. Since then he has been involved in over 40 start-up high-tech businesses.

He is Honorary Treasurer of the Royal Academy of Engineering (FREng) and the Vice President, Business

of the Royal Society of Edinburgh (FRSE). He serves on the board of the Edinburgh International Science Festival, the National Theatre of Scotland, and Chairs the Board of Our Dynamic Earth, Edinburgh's Science Centre. He is a Trustee of the Saltire Foundation and The David Hume Institute.

He was a board member of Channel 4 TV (2000-2006) and deputy Chairman of the Edinburgh International Film Festival (2002-2011).

He was awarded a CBE in 2003 for services to Enterprise and Education. He has a degree in Computer Science (1973) and has been awarded Honorary Doctorates by Robert Gordon University, Abertay, Heriot-Watt and Edinburgh Universities. He was widowed in 2001 and has two grown up children (Niall, 1980 and Claire 1989).



Social Activity: Tour of Kelvingrove

Time:15:00-17:00, day 1Location:Kelvingrove Art Gallery and Museum (on map)<br/>Meeting at and returning to University Avenue (map: near C8)Coordinator:Graham McDonald

Kelvingrove Art Gallery and Museum has been a favourite with Glasgow's residents and visitors since it opened in 1901 as part of the Glasgow International Exhibition. It is sited at the edge of the beautiful Kelvingrove Park in Glasgow's cosmopolitan West End and is one of the top three free attractions in Scotland.

The permanent art collection on display includes: Salvador Dali's Christ of St John of the Cross, Dutch Old Masters, French Impressionists and Scottish Art including the Glasgow Boys and the Scottish Colourists. There are also beautiful displays of decorative art including an entire gallery dedicated to works by Charles Rennie Mackintosh and other artists working in the 'Glasgow Style'. We also have nationally and internationally recognized collections of arms and armour, world cultures, Ancient Egypt, prehistoric animals and Scottish history. There's even a Spitfire plane suspended from the ceiling!

The museum has a choice of cafes offering a varied selection from snacks to light lunches and full meals and the gift shops stock an excellent range of gifts and souvenirs, including many exclusive items inspired by the collections on display.



# 24–25 June 2015 Social Activity: Bus Tour of Glasgow

Time:15:00-17:00, day 1Location:Departs from and returns to University Avenue (map: near C8)Coordinator:Maria Evangelopoulou

City Sightseeing bus tours are the perfect way to see Glasgow. The bus tours are consisted of City Sightseeing double deck open top buses and the complete tour lasts one hour and fifty minutes, taking in the best that Glasgow has to offer.

The guides are all locally trained and qualified to an officially recognised Scottish standard.

In addition to providing exclusive access to City Sightseeing Glasgow open top tours, guides will join the coach and provide special commentary.



# **Travel & Accommodation**

# Registration

Registration takes place on the morning of *both* days, in the Western Infirmary Lecture Theatre Main Foyer (B9 on the campus map). No tickets are required. Bags may be left at reception on both days, at the owner's risk.

#### Transport

The conference is nearest to the Kelvinhall Subway station (marked S on the map) and the Boyd Orr building bus stop on University Avenue. For navigation purposes, the nearest postcode is G11 6NT.

The conference includes transport as follows:

- Coach to the accommodation from near C9 after social activities at 17:00 on day 1
- Coach from the accommodation to the City Chambers at 19:00 on day 1
- Coach from the accommodation to the breakfast venue at 08:00 on day 2

No conference transport is provided from the reception venue (Glasgow City Chambers, George Square) back to the accommodation, but the Glasgow Subway (from Buchanan St station to Hillhead), buses (the simpliCITY 6 or 6A, from George Square to Kirklee Road) and taxis all provide a good service on this route.

Delegates who are not staying overnight in conference accommodation should make their own way to and from the reception.

#### Accommodation

Delegates from outside Glasgow are being accommodated at the Queen Margaret Residences. Check-in will be after the social activities on day 1, with coaches provided from the conference; checkout the following day before breakfast.

Breakfast is being provided on day 2, for those staying in conference accommodation only, at 1A The Square (A9 on the campus map) between 08:15 and 09:30.

Accommodation map/directions: <u>https://goo.gl/maps/Jfykx</u> or use the postcode G12 0PR for navigation.

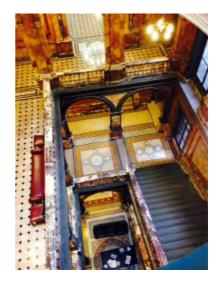
# **Evening Reception, 24th June**

The first day of the conference will culminate in a reception in the grand surroundings of the Glasgow City Chambers. The reception will feature a civic welcome from a senior representative from Glasgow City Council and welcome speeches from the SICSA Director and the Conference Chair. There will be music, drinks and a hot fork buffet; and this will be an excellent opportunity for delegates to relax and network with peers.

The reception will run from 19:30 until approximately 21:30, at which time delegates will be able to enjoy the rest of their evening in Glasgow City Centre or travel back to the Conference accommodation.

SICSA will provide transport to the venue from the conference accommodation, departing between 18:30 and 19:00. Please note that transport will not be provided by SICSA for the return journey but there are a number of options for transport back to Glasgow's West End, including the Subway, train, buses and taxis - see the Travel & Accommodation page for details.





#### SICSA PhD Conference



Be at the forefront of computer science research and computing technology, working with world-class researchers on new ideas and their realisation

Microsoft Research Cambridge is one of the largest computer science research laboratories in Europe, the Middle East and Africa (EMEA). With over 130 leading researchers from around the world across various disciplines, we work hard to provide a world-class research laboratory that promotes creativity and independent thinking, while providing a challenging and open work environment.

A post-doc position in the Cambridge lab is a great opportunity to work with some of the top minds and the strongest teams in the research community, in a whole range of areas of computer science and information engineering. More than that, there is the potential to develop your research career and have your research impact upon products and services that will be used by millions of people across the world.

For more information about how to apply for a post-doc position, including application deadlines, please visit: research.microsoft.com/en-us/jobs/fulltime/researcher.aspx









Microsoft Research



# **Conference Timetable**

Wednesday, 24th June 2015		
Time	Session Name	Location
09:30-10:30	Registration, coffee	Western Infirmary Lecture Theatre Main Foyer
10:30-10:40	Opening Address	Western Infirmary Lecture Theatre
10:40-11:40	Keynote 1	Western Infirmary Lecture Theatre
11:50-12:45	Lunch & Posters	Wolfson Medical School Building Main Atrium
	Networking Skills	Wolfson Medical School Building Gannochy Room
12:45-14:45	Employability Skills	Wolfson Medical School Building Hugh Fraser Room
	Publication Skills	Wolfson Medical School Building Yudowitz Room
15:00-17:00	Social Activities - Tours	Meeting point: University Avenue
17:00-19:00	Check in, free time	Queen Margaret Halls
19:30-21:30	Drinks reception	Glasgow City Chambers
Thursday, 25th June 2015		
Time	Session Name	Location
08:00	Buses to breakfast	Queen Margaret Halls
08:15-09:30	Breakfast	One A The Square
09:30-10:00	Registration, coffee	
10:00-12:00	Scientific Collaboration	Western Infirmary Lecture Theatre
12:15-13:15	Keynote 2	
13:15-14:00	Lunch & Posters	Wolfson Medical School Building Atrium
14:15-15:45	Presentation Skills	Western Infirmary Lecture Theatre Seminar Room 112
14.10-10.40	Skills for Start-ups	Western Infirmary Lecture Theatre Seminar Room 114
15:50-17:00	Prizegiving & Close	Western Infirmary Lecture Theatre

# Notes

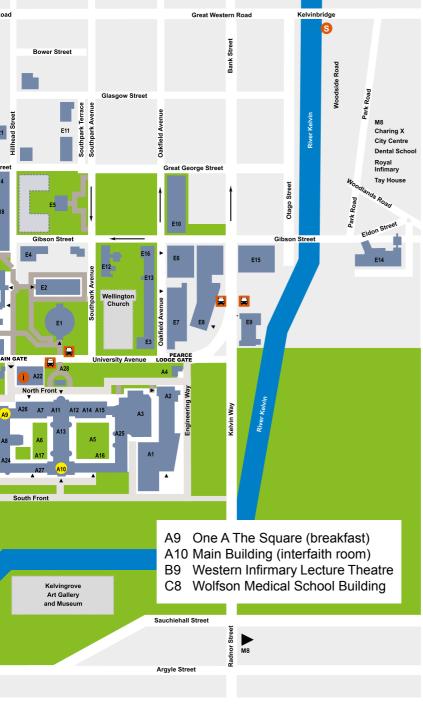
- The Interfaith Room (in building A10 on the map) is available for conference delegates throughout both days; see <a href="http://goo.gl/O4KZkp">http://goo.gl/O4KZkp</a> for more details.
- All conference catering is Halal
- Eduroam WiFi is available, with guest credentials available at registration.

# SICSA PhD Conference University of Glas



#### 24-25 June 2015

# gow, Campus Map



Workshop Session: Networking Skills

Time:	12:45-2:45, day 1
Location:	Wolfson Medical School Building Gannochy Room (map: C8)
Facilitator:	Dr Rosie Doyle
Coordinator:	Samuel Chinenyeze
RDF Domain:	D2 Communication and dissemination

Networking is vital to both the research and business individual, as it is the tool and skill that fosters our engagement with the research or business community. The aim of this session is to unravel the approach to effective networking in practice.

Dr Rosie Doyle is the Personal and Professional Development Facilitator, previously at Confident Futures with Edinburgh Napier University, now founder of Rosie Doyle Training and Development. She is profound and experienced in the delivery and facilitation of personal/professional skills such as networking and presentation.

# Content

The session aims to achieve the following range of possible learning outcomes:

- Powerful networks:
- Mapping and mobilising your existing professional network
- Creating and developing valuable networks: strengthening the power of your network; establishing and promoting your status in your network;
- Career development through networking
- Skillful Networking:
- Preparation for networking events: goal-setting; research; elevator pitch
- Making the most of the opportunities of formal and informal networking events: interpersonal skills for networking: communication skills; working the room: conversation techniques.

# Workshop Session: Employability Skills Workshop

Time:	12:45-2:45, day 1
Location:	Wolfson Medical School Building Hugh Fraser Room (map: C8)
Facilitators:	Glasgow University Careers
Coordinator:	Aminu Muhammad
RDF Domain:	B3 Professional and career development

This workshop is aimed at providing interactive session covering useful skills for getting employment in the ICT industry or academia and professional behaviours for career optimisation. It will focuses on getting the participants leverage invaluable peripheral skills developed during their studies, such as communication skills, analytical thinking and time management, for employment prospects.

# Content

- The session aims to achieve the following range of possible learning outcomes.
- Exploring career options and making career decisions
- Job Seeking Strategies, CV writing and Interviews Skills
- Leveraging your Strength Themes and PhD Graduate Attributes
- Professional behaviours for career progression

# Workshop Session: Publishing research results in Informatics and Computer Science

Time:	12:45-2:45, day 1
Location:	Wolfson Medical School Building Yudowitz Room (map: C8)
Facilitator:	Prof Alan Bundy
Coordinator:	Hadi Daneshvar
RDF Domain:	D2 Communication and dissemination

Writing papers is one of the most important ways of communicating the results of research to the research community and getting feedback on it to inform future directions.

The aim of this session is describe the structure of informatics publications and to provide practical guidance on the publication process: how choose a publication venue, write a paper, submit it, address reviewers criticisms, etc.

### Content

- Discussion and Q/A sessions.
- Exercise: Each attendee writes a 300 word abstract describing their PhD project and submits this in advance of the conference. During this session, attendees will be paired, swap abstracts, review them then discuss the reviews.
- The session will be covering the following points, and any other points suggested by the presenter:
- Structure of informatics publications.
- The reasons for presenting your work for publication.
- Types of publication venues and choosing the appropriate one.
- Preparing and submitting papers.
- The review process.
- Co-authors agreement, copyright transfer, reprints.

# Workshop Session: Scientific Collaboration Workshop

Time:	10:00-12:00, day 2
Location:	Western Infirmary Lecture Theatre (map: B9)
Facilitator:	Prof Ian Gent (University of St Andrews)
Coordinators:	Oche Ejembi, Ebuka Ibeke
RDF Domain:	D1 Working with others

Collaboration is SICSA's core ideology, towards its goal of extending Scotland's position as a world leader in Informatics and Computer Science research and education. SICSA achieves this by fostering cooperation, rather than competition among its 14 member universities. This collaboration starts with you – the hard-working and energetic research student.

# Content

- Introduction (20 minutes)
- Collaboration Workshop (70 minutes)
- Presentations (30 minutes)

There will be a brief introductory lecture by Professor Ian Gent to talk about Scientific Collaboration and to introduce the workshop. This will be followed by 4 parallel, interactive workshop sessions. You have been allocated to a group with 3 to 5 other research students. We have tried to group you with attendees who have similar research areas and topics to you, based on the information provided to us at Registration, and notified everyone about their group by email.

We would like to encourage all participants to start thinking about possible ideas and topics for collaboration from your own PhD research topics and areas. You may wish to come along to this session with your laptops, tablets and any other tools which may aid your collaborative research, preparation and presentation.

At the session, you and your group members will have some time to further develop your collaboration ideas together. Then, you shall choose 1 member who will explain your idea and present an abstract of your work to the rest of the room in 5 minutes or less.

# **Presentation Skills**

Time:	14:15-15:45, day 2
Location:	Western Infirmary Seminar Room 112 (map: B9)
Facilitator:	Anne MacNab, Positive Outcomes
Coordinators:	Samuel Chinenyeze, Hadi Daneshvar
RDF Domain:	D2 Communication and dissemination

This interactive workshop session will provide participants with key elements that comprise an impactful and successful presentation, taking into consideration both Academic and other contexts participants are likely to encounter e.g. at interviews.

Anne MacNab is the founder of Positive Outcomes (Scotland). She has a wide range of experience in the delivery of Facilitation, Training and Coaching services that work with individuals and/or teams to help them 'get moving, and in the right direction'.

#### Content

- Getting your message across: what is the 'right' content? what to include/ not include?
- Presentation Tools: Understand when what tool is most appropriate to use, and the impactful use of PowerPoint.
- Managing Nerves: Learning the difference between nerves that disable versus nerves that perform, and learning to understand and manage your symptoms.
- Personal impact: personal composition or body language, voice projection and rehearsing.
- Questions and Answers: Using Counterargument, and learning to build (and answer) possible questions into your presentation.

# **Skills for Start-ups**

Time:	14:15-15:45, day 2
Location:	Western Infirmary Seminar Room 114 (map: B9)
Facilitator:	Bonnie Hacking
Coordinator:	Moses Akazue
RDF Domain:	B3 Professional and career development
	D3 Engagement and impact

This skill session is designed to equip attendees with the necessary information needed to successfully get a business off the ground. The session will have a panel made up of business mentors, investment agencies as well as IT start-up entrepreneurs. The session will begin with a short talk by the speaker on how to make ideas happen, followed by a discussion on how to get investment ready. Attendees will have the opportunity to think about and consider an idea of their own and use the expertise of others in the room to develop it as well as consider the first steps they'll need to take to bring it to life.

Individuals are given an opportunity to think about and consider an idea of their own and use the expertise of others in the room to develop it and think about the first steps they'll need to take to bring it to life

# Content

- · Getting an IT business (or any business) off the ground
- What about Intellectual Property?
- · What funders are looking for and the importance of being investment ready
- Identifying sources of funding
- Members of panel provides further insight on what investors are looking for in a good proposal (from an investor's perspective)

# **Poster Sessions**

Time: 11:50-12:45, day 1; 13:15-14:00, day 2

Location: Wolfson Medical School Building - Main Atrium (map: C8)

Coordinators: Elaine Chen Yoke Yie

All posters will remain on display for both days.

### Next Generation Internet

1st year

1. Simone Ivan Conte, MAiSoS: a Distributed System to Model Context and Provenance in a Sea of Stuff

2nd year

- 2. Haifa Al Nasseri , Investigation of Cloud Virtual Network Isolation Mechanisms for Security
- 3. Yazeed Alkhurayyif, How can we gauge the effectiveness of information security policies?
- 4. Kenneth Ovens, Identification and Analysis of iOS and OS X Email Artefacts

3rd year

- 5. Amjad Ullah, Towards workload aware multi-controller based cloud resource provisioning with fuzzy switching
- Nikolaos Vlachos, Global Internet Traffic Volume Prediction: Towards the Discovery of a New Formula
- 7. Farida Chowdhury, A Model for P2P NAT Traversal in OverSim
- 8. Arniyati Ahmad, A Study on Organisation Cyber Resilience

# Modelling and Abstraction

1st year

- 9. Ludovica Luisa Vissat, MELA: MODELLING IN ECOLOGY WITH LOCATION ATTRIBUTES
- 10. Jarana Manotumruksa, User's Location Prediction in Location-based Social Networks
- 11. Nadia Solime Taou, Exploring Immunological Drug Targets using Artificial Biochemical Networks
- 12. Anjie Fang, Topic-centric Classification of Twitter User's Political Orientation
- 44. Aliyu Usman Ahmad, Automated Big Data Analysis
- 45. Zonghua Liu, A Polygonal Approximation of Boundary Shapes of Marine Plankton Based on Genetic Algorithms

2nd year

- 13. Blessing Mbipom, Development of a Background Knowledge Structure for an e-learning domain
- 14. Ciaran McCreesh, Solving Hard Graph Problems in Parallel
- 15. Xiaoyu Xiong, Adaptive Multiple Importance Sampling for Gaussian Processes
- 16. Sean Mckeown, Investigating People for Open-Source Intelligence Investigations

3rd year

- 17. Cheng Feng, Speed-up of Stochastic Simulation of PCTMC Model by Statistical Model Reduction
- Joe Wandy, MS2-LDA: Latent Dirichlet Allocation for Substructure Discovery of MS2 Peaks in LC-MS/MS Data

#### 24–25 June 2015

- 19. Bilal Syed Hussain, Automated Testing for Constraint Modelling and Solving Systems
- 20. Paolo Pareti, Representing Human Know-How as Linked Data
- 21. Shahnaz Bashir, The Importance of Hofstede cultural dimensions for knowledge sharing in virtual communities
- 22. Konstantinos Georgatzis, Discriminative Switching Linear Dynamical Systems applied to Physiological Condition Monitoring

# **Human Computer Interaction**

1st year

- 23. Adeola Fabola, Virtual Time Travel Exploring the Past with Google Cardboard
- 24. Charalampos Kyfonidis, The future of health coaching- A proposed model
- 25. Gideon Ogunniye, Generic Framework for Modelling Dialogue with Information from Sources of Varying Trustworthiness
- 26. Garreth Tigwell, Improving Intercultural Human-to-Human Interaction through Nonverbal Visualisation
- 27. Ikechukwu Nkisi-Orji, Ontology-based Semantic Retrieval of Geological Texts
- 28. Moemedi Lefoane, Enhancing Legal Search using Argumentation

2nd year

- 29. Moses Akazue, The Effect of Thermal Stimuli on the Emotional Perception of Images
- Nyi Nyi Htun, Towards Quantifying the Impact of Non-Uniform Information Access in Collaborative Information Retrieval
- 31. Susan Creighton, Dishonest Behaviour at Self-service Checkouts
- 32. Aurelien Ammeloot, Design Principles for Collaborative Device Ecologies
- 33. Elena Daehnhardt, Mining Microblogs to ExploitCulture-Awareness in Web Adaptation
- 34. David Maxwell, Search and Simulation
- 35. Shu Wang, An Investigation into the Use of Virtual Reality Technology for Passenger Infotainment in a Vehicular Environment

3rd year

36. Kirsten Smith, Digital Flowers: Assessing the Supportiveness of Gift Emoticons in Care Scenarios

# **Complex System Engineering**

1st year

- 37. Lavinia Burski, From Z Specification to full proof: A stepwise method
- 38. Arpit Joshi, Efficient Persist Barrier
- 39. Tayyaba Nafees, Learning from our Mistakes: Using Vulnerability Databases and Patterns to Inform the Secure Systems Development Life Cycle

2nd year

- 40. Konstantina Panagiotopoulou, Towards Resilient Chapel
- 41. Jamie Stevenson, Who cares about design?

3rd year

- 42. Mohamed Eshaftri, A New Energy Efficient Cluster based Protocol for Wireless Sensor Networks
- 43. Ildiko Pete, A Framework for Maintaining Artefact Consistency during Software Development

# **Conference Committee**

- Ian Miguel, University of St Andrews, SGA Director
- Craig Macdonald, University of Glasgow, Academic Chair
- Steven Kendrick, University of Glasgow, Executive Officer
- Aileen Orr, University of Glasgow, Executive Assistant
- Moses B Akazue, Glasgow Caledonian University, Workshop
- Elaine Chen Yoke Yie, Robert Gordon University, Posters
- Samuel Chinenyeze, Edinburgh Napier University, Workshop
- · Hadi Daneshvar, University of Edinburgh, Workshop
- Oche O Ejembi, University of St Andrews, Workshop
- · Maria Evangelopoulou, University of Glasgow, Social Events
- Ebuka Ibeke, University of Aberdeen, Workshop
- Graham McDonald, University of Glasgow, Social Events
- Aminu Muhammad, Robert Gordon University, Workshop
- James A Sutherland, University of Abertay Dundee, Communications/Web

Interested in becoming part of the organising committee for the 2016 SICSA PhD Conference? Contact <u>admin@sicsa.ac.uk</u> for more information.

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