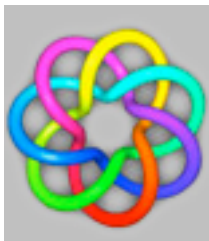


Australasian Computer Science Week 2009

Wellington, New Zealand, 19-23 January 2009



Conference Handbook



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The ACSW2009 organising committee would like to thank the following organisations for their generous support of this event:

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Welcome

We would like to welcome you to ACSW2009 hosted by Victoria University of Wellington, New Zealand.

Wellington is set on the edge of a stunning harbour and surrounded by rolling hills. The earliest name for Wellington, from Maori legend, is Te Upoko o te Ika a Maui. In Maori it means the head of Maui's fish. Caught and pulled to the surface by the Polynesian navigator Maui, the fish became the North Island. Wellington is the capital city of New Zealand and home to the seat of parliament. But this vibrant and dynamic city also has many other capital claims including Culture capital, Creative capital and Events capital. It is a compact, walkable city waiting to be explored. The conference venue is less than fifteen minutes walk to accommodation, Courtenay Place with its wide range of bars, and the harbour with its restaurants and activities such as sea kayaking. The conference venue itself is in the Museum of New Zealand Te Papa Tongarewa, offering visitors a unique and authentic experience of this country's treasures and stories. Over five floors, you can explore the nation's nature, art, history, and heritage - from the shaping of its land to the spirit of its diverse peoples, from its unique wildlife to its distinctive art and visual culture.

Victoria University of Wellington - Te Whare Wānanga o te Ūpoko o te Ika a Māui - is over a century old. Victoria College was founded

through an Act of Parliament in 1897, the year of Queen Victoria's Diamond Jubilee celebrations, and named in her honour. Victoria is a thriving community of almost 25,000 people. Situated in the capital city across four campuses, Victoria can take advantage of connections and values its relationships with iwi, business, government, the judiciary, public and private research organisations, cultural organisations and resources, other universities and tertiary providers and the international community through the diplomatic corps. ACSW2009 coincides with the opening of the new School of Engineering and Computer Science as part of the Faculty of Engineering at Victoria University of Wellington - combining a long history of research and teaching of the software engineering and network engineering in the Computer Science department and computer system engineering and electronic engineering in the Physics department. Professor John Hine, co-chairing ACSW2009, is the current Dean of Engineering and the inaugural Head of the School of Engineering and Computer Science.

The nature of ACSW requires the co-operation of numerous people. We would like to thank all those who have worked to ensure the success of ACSW2009 including the Organising Committee, the Conference Chairs and Programme Committees, our sponsors, the keynote speakers, the staff at Te Papa and the delegates.

Dr Alex Potanin and Prof John Hine
ACSW2009 Co-Chairs
Victoria University of Wellington
January, 2009

Venue: Museum of New Zealand – Te Papa Tongarewa

Since opening in 1998, Te Papa has built a worldwide reputation for its fresh and bold approach to presenting a nation's treasures and stories. In that time, over ten million people have come to enjoy this unique museum experience.

Te Papa is a waharoa, a gateway, to an encounter with the essence of New Zealand's land and people. Wonderful taonga (Māori cultural treasures), art, and objects are presented through fascinating stories, thought-provoking interpretations, and engaging interactives.

Over the five floors of our huge building, you can explore the breadth of the New Zealand story - from the shaping of its land to the spirit of its diverse peoples, from its unique wildlife to its distinctive visual culture.

You will encounter Māori, New Zealand's indigenous people, through authentic portrayals of their traditions and living culture as well as Te Papa's unique Marae (communal meeting place), a setting that all visitors are encouraged to connect with.



Underpinning the exhibition experience are Te Papa's collections, managed and made accessible by world-class curatorship. The collections are developed and enhanced by ongoing programmes of research.

Contacts

If you have any concerns during the conference, please contact either your conference chair or a member of the organising committee.

Organising Committee

Dr Alex Potanin: *Co-Chair*

Prof John Hine: *Co-Chair, Events*

Dr Stuart Marshall: *Finance, Programme & Handbook*

Dr David Pearce: *Venue*

Mrs Suzan Hall: *Operations*

Dr Ian Welch: *Communications*

Mr Craig Anslow: *Communications, Student Volunteers, Operations*

Dr Peter Komisarczuk: *Operations*

Conference Chairs

ACSC: Bernard Mans

ACE: Margaret Hamilton, Tony Clear

ADC: Athman Bouguettaya, Xuemin Lin

AUSGRID: Wayne Kelly, Paul Roe

CATS: Prabhu Manyem, Rod Downey

APCCM: Markus Kirchberg, Sebastian Link

AISC: Ljiljana Brankovic, Willy Susilo

HIKM: Jim Warren

AUIC: Gerald Weber, Paul Calder

ACDC: David Pearce, Vladimir Estivill-Castro

Student Volunteers

Craig Anslow and his team of student volunteers will be on hand to assist attendees throughout the conference. Our student volunteers will be wearing distinctive black t-shirts and be based throughout the venue and in all the conference rooms during sessions.

We would also like to acknowledge the support of Victoria University of Wellington's Awhina programme. The focus of the Awhina programme is to produce Maori and Pacific scientists, technologists, engineers, architects and designers to contribute to Maori and Pacific development. Awhina provides a group of volunteers to assist Victoria students during their studies, and some of our student volunteers are in the Awhina programme.



Keynote Speakers

Mark Guzdial: Contextualized Computing Education

*Session: Tuesday 1030-1200
(Soundings Theatre)*



Abstract: One of the most powerful tools for improving success rates in introductory computing courses is the incorporation of context -- a theme that pervades the computing lectures, assignments, and examples which relates the content to a concrete application domain. Contextualized computing education has even allowed us to be successful with challenging audiences, such as the non-technical major. In this talk, we review why Georgia Tech has chosen to teach serious computer science to every student on campus, and then discuss research findings from several schools on the benefits and costs of contextualized computing education.

Bio: Mark is from the College of Computing at Georgia Institute of Technology. Mark developed Emile, an environment for high school science learners programming multimedia demonstrations and physics simulations. Mark was the original developer of the CoWeb (or Swiki), which is now one of the most widely used Wiki engines in Universities around the world. Mark is the inventor of the Media Computation approach to learning introductory computing, which uses contextualized computing education to attract and retain students. Mark is currently vice-chair of the ACM Education Board.

Ian Foster: Computing Outside the Box

*Session: Wednesday 1030-1200
(Soundings Theatre)*



Abstract: The past decade has seen increasingly ambitious and successful methods for outsourcing computing. Approaches such as utility computing, on-demand computing, grid computing, software as a service, and cloud computing all seek to free computer applications from the limiting confines of a single computer. Software that thus runs "outside the box" can be more powerful (think Google, TeraGrid), dynamic (think Animoto, caBIG), and collaborative (think FaceBook, myExperiment). It can also be cheaper, due to economies of scale in hardware and software. The combination of new functionality and new economics inspires new applications, reduces barriers to entry for application providers, and in general disrupts the computing ecosystem. I discuss the new applications that outside-the-box computing enables, in both business and science, and the hardware and software architectures that make these new applications possible.

Bio: Ian is from the Argonne National Laboratory & University of Chicago. Ian leads computer science projects developing advanced distributed computing ("Grid") technologies, computational science efforts applying these tools to problems in areas ranging from the analysis of data from physics experiments to remote access to earthquake engineering facilities, and the Globus open source Grid software project.

Ronald Fagin: Finite Model Theory and its Origins

Session: Thursday 1030-1200
(Soundings Theatre)



Abstract: Finite model theory is a study of the logical properties of finite mathematical structures. This talk gives an overview of how finite model theory arose, and of some work that sprang from that. This includes:

- (1) Differences between the model theory of finite structures and infinite structures. Most of the classical theorems of logic fail for finite structures, which gives us a challenge to develop new concepts and tools, appropriate for finite structures.
- (2) The relationship between finite model theory and complexity theory. Surprisingly enough, it turns out that in some cases, we can characterize complexity classes (such as NP) in terms of logic, without using any notion of machine, computation, or time.
- (3) Zero-one laws. There is a remarkable phenomenon, which says that certain properties (such as those expressible in first-order logic) are either almost surely true or almost surely false.
- (4) Descriptive complexity. Here we consider how complex a formula must be to express a given property.

The goal of this talk is to introduce the audience to the fascinating area of finite model theory.

Bio: Ronald is from IBM Almaden Research Center. Ronald's research interests include applications of logic to computer science, database theory, finite model theory and reasoning about knowledge. Ronald won the 2004 SIGMOD Edgar F. Codd Innovation Award for his influential and lasting contributions to the principles and the practice of database systems over a period spanning nearly three decades.

Andy Hopper: Computing for the Future of the Planet

*Session: Friday 1100-1230
(Soundings Theatre) and New Zealand Computer Society (NZCS)
Public Lecture*



Abstract: Digital technology is becoming an indispensable and crucial component of our lives, society, and environment. A framework for computing in the context of problems facing the planet will be presented. The framework has a number of goals: an optimal digital infrastructure, sensing and optimising with a global world model, reliably predicting and reacting to our environment, and digital alternatives to physical activities.

Bio: Andy is the Head of Department at The Computer Laboratory, University of Cambridge. Andy's research interests include Computing for the Future of the Planet.

Sponsored By:



Trans-Tasman Computing Curriculum

Session: Friday 23 January 0900-1030 (Soundings Theatre)



In addition to our four keynote speakers above, CORE is running a fifth plenary session at 9am on Friday morning.

Abstract: CORE has undertaken the process of reviewing the accreditation standards for Australian degrees in Computer Science, Information Technology and Software Engineering. After a period of feedback, we have prepared a recommended accreditation standard that we will present at ACSW. Information on the process is at <http://www.csse.unimelb.edu.au/~jz/curriculum.html>.

Conference Schedule

ACSW2009 consists of the following conferences:

- The 32nd Australasian Computer Science Conference (ACSC)
- Australasian Computing Education Conference (ACE)
- Australasian Database Conference (ADC)
- Australasian Symposium on Grid Computing and e-Research (AUSGRID)
- Computing: The Australasian Theory Symposium (CATS)
- Asia-Pacific Conference on Conceptual Modelling (APCCM)
- Australasian Information Security Conference (AISC)
- Australasian Workshop on Health Informatics and Knowledge Management (HIKM)
- Australasian User Interface Conference (AUIC)
- Australasian Computing Doctoral Consortium (ACDC)

Award Winning Papers

The following papers have won awards from their respective conferences. Best Paper Awards (along with other CORE prizes) will be presented at a ceremony at noon on Tuesday in the Soundings Theatre.

- **AISC Best Paper:** Hisil, Wong, Carter and Dawson, “Faster Group Operations on Elliptic Curves”, Tuesday 1:30pm (Rangimarie Room 2)
- **ACSC Best Paper:** Garg, Buyya and Siegel, “Scheduling Parallel Applications on Utility Grids: Time and Cost Trade-off Management”, Tuesday 2:30pm (Soundings Theatre)
- **CATS Best Paper:** Day, “On Process Complexity”, Wednesday 9:00am (Angus Room)
- **ADC Best Paper:** Ravana and Moffat, “Score Aggregation Techniques in Retrieval Experimentation”, Wednesday 9:30am (Rangimarie Room 1)
- **ACE Best Paper:** Fidge and Teague, “Losing Their Marbles: Syntax-Free Programming and Assessing Problem-Solving Skills”, Wednesday 2:00pm (ICON Foyer)
- **APCCM Best Paper:** Necasky, “Reverse Engineering of XML Schemas to Conceptual Diagrams”, Wednesday 4:00pm (Rangimarie Room 2)
- **ACE Best Paper:** Laxer, Daniels, Cajander. Wollowski, “Evolution of an International Collaborative Student Project”, Wednesday 5:30pm (ICON Foyer)

Information for Presenters and Session Chairs

Each accepted paper has a time allocation of thirty minutes. This includes time for setup and for questions, so presenters should consider speaking for no more than twenty minutes.

Each of the rooms in the venue has a laptop running Windows XP. The laptops will support Powerpoint 2003 and PDF, and there will be Internet access available via the wireless network.

If you are chairing a session, please ensure that you turn up to your room at least twenty minutes prior to the session starting. If you are chairing the last session in the day, please note that the venue closes at 6pm, so that you should endeavour to stay on time.

If you are presenting in a session, please ensure that you turn up to your room at least fifteen minutes prior to the session starting and make yourself known to the session chair. If you are using your own laptop for the presentation, then please turn up at least twenty minutes prior to the session starting. If you are using the room laptop, then please transfer your presentation to the laptop prior to the start.

Student volunteers will be around the rooms before and during the sessions to assist if there are any problems, or to communicate any concerns to the organising committee.

Day 1: Tuesday

Time	Angus Room	ICON	Rangimarie 1	Rangimarie 2	Rangimarie 3	Soundings
9:00	<i>Registration and Morning Tea (Oceania Room)</i>					
10:00	<i>Welcome Session (Soundings Theatre)</i> <i>ACSW 2009 opened by Hon. Dr. Wayne Mapp, Minister for Research Science and Technology</i>					
10:30	Keynote Address by Mark Guzdial (Soundings Theatre)					
12:00	<i>Awards Ceremony (Soundings Theatre)</i>					
12:30	<i>Lunch (Oceania Room)</i>					
13:30		ACE #1	ADC #1 + Invited Talk	AISC #1	AUC #1	ACSC #1 + Invited Talk
15:30	<i>Afternoon Tea (Oceania Room)</i>					
16:00	CATS #1	ACE #2	ADC #2	AISC #2	AUC #2	
17:30						
18:00	<i>Day Finishes</i>					

Day 2: Wednesday

Time	Angus Room	ICON	Rangimarie 1	Rangimarie 2	Rangimarie 3	Soundings
9:00	CATS #2	ACE #3	ADC #3	AISC #3	AUSGRID #1	ACSC #2
10:00	<i>Morning Tea (Oceania Room)</i>					
10:30	Keynote Address by Ian Foster (Soundings Theatre)					
12:00	<i>Lunch (Oceania Room)</i>					
13:30	CATS #3	ACE #4	ADC #4	AISC #4	AUSGRID #2	ACSC #3
14:30		+ Panel	+ Invited Talk	+ Business		APCCM Invited Talk
15:30	<i>Afternoon Tea (Oceania Room)</i>					
16:00	CATS #4	ACE #5	ADC #5	APCCM #1	AUSGRID #3 + Invited Talk + Plenary	ACSC #4
17:00						
17:30						
18:00	<i>Day Finishes</i>					

Day 3: Thursday

Time	Angus Room	ICON	Rangimarie 1	Rangimarie 2	Rangimarie 3	Soundings
9:00	CATS #5	ACE #6	ACE #6	APCCM #2		ACSC #5
10:00	<i>Morning Tea (Oceania Room)</i>					
10:30	Keynote Address by Ronald Fagin (<i>Soundings Theatre</i>)					
12:00	<i>Lunch (Oceania Room)</i>					
13:30	CATS #6	ACE #7	ADC #7	APCCM #3 + Invited Talk	HIKM #1	ACSC #6
15:00		+ Invited Talk				
15:30	<i>Afternoon Tea (Oceania Room)</i>					
16:00	CATS #7	ACE #8		APCCM #4	HIKM #2 + Invited Talk	ACSC #7
16:30						
17:30						
18:00	<i>Day Finishes</i>					
19:00	<i>Conference Dinner</i>					

Day 4: Friday

Time	Soundings
9:00	<i>Trans-Tasman Computing Curriculum</i>
10:30	<i>Morning Tea (Oceania Room)</i>
11:00	Keynote Address by Andy Hopper, <i>NZCS Public Lecture</i>
12:30	<i>Conference Closes</i>

Conference Key:

ACSC: Computer Science	ADC: Databases	AUSGRID: Grid Computing & E-Research
CATS: Computing Theory	AUIC: User Interface	HKIM: Health Informatics and Knowledge Management
ACE: Computing Education	AISC: Information Security	APCCM: Conceptual Modelling

Time	Angus Room	ICON	Rangimarie #1	Rangimarie #2	Rangimarie #3	Soundings
<h2>Day 1: Tuesday</h2>						
Conf. / Chair		<u>ACE #1</u> <i>Margaret Hamilton</i>	<u>ADC</u> <i>Bouguetaya & Moffat</i>	<u>AISC #1</u> <i>Ljiljana Brankovic</i>	<u>AUIC #1</u> <i>Paul Calder</i>	<u>ACSC #1</u> <i>Bernard Mans</i>
13:30		Koppi et al <i>What our ICT graduates need from us: A perspective from the workplace.</i>	Invited Talk Shen <i>Large-scale Video Sequence Indexing: Impacts, Ideas and Trends.</i>	Hisil et al <i>Faster Group Operations on Elliptic Curves.</i>	Delwadia et al <i>Experiments in Remote Mobile Gaming.</i>	Pirzada et al <i>ALARM: An Adaptive Load-Aware Routing Metric for Hybrid Wireless Mesh Networks.</i>
14:00		Craig <i>Intervention Programmes to recruit Female Computing Students: Why do Programme Champions do it?</i>	Invited Talk continued	Gorantla et al <i>Strong Designated Verifier Signature in a Multi-user Setting.</i>	Lister and Box. <i>A Citation Analysis of the AUIC 2006-08 Proceedings, with Reference to the CORE Conference and Journal Rankings.</i>	Jayasinghe et al <i>The Impact of Quanta on the Performance of Multi-level Time Sharing Policy under Heavy-tailed Workloads.</i>
14:30		Rountree and Rountree <i>Issues Regarding Threshold Concepts in Computer Science.</i>	Bobadilla and Serradilla <i>The Incidence of Sparsity on Collaborative Filtering Metrics.</i>	Z'aba et al <i>Algebraic Analysis of LEX.</i>	Hoang et al <i>Augmenting Image Plane AR 3D Interactions for Wearable Computers.</i>	Garg et al <i>Scheduling Parallel Applications on Utility Grids: Time and Cost Trade-off Management.</i>
15:00		Haley et al <i>Human Fallibility: How Well Do Human Markers Agree.</i>	Speer et al <i>Solving the Golden Transaction Problem for ARIES-based Multi-level Recovery.</i>	Terada & Ueda <i>A New Version of the RC6 Algorithm, Stronger Against χ^2 Cryptanalysis.</i>	Stafford et al <i>Comparison of Techniques for Mixed-Space Collaborative Navigation.</i>	Invited Talk Lister & Box <i>A Citation Analysis of the ACSC 2006 – 2008 Proceedings,</i>

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
Day 1: Tuesday (continued)						
15:30	<i>Afternoon Tea (Oceania Room)</i>					
Conf. / Chair	CATS #1 <i>Vlas Estvill-Castro</i>	ACE #2 <i>Tony Clear</i>	ADC #2 <i>Georga-kopoulos & Shen</i>	AISC #2 <i>Willy Susilo & Ed Dawson</i>	AUIC #2 <i>Bruce Thomas</i>	
16:00	Chang et al <i>Spreading of messages in random graphs.</i>	Simon <i>Ten Years of the Australasian Computing Education Conference.</i>	Mlynkova <i>On Inference of XML Schema with the Knowledge of an Obsolete One.</i>	Invited Talk <i>Foundation for Systems Security.</i>	Schmieder et al <i>Sketching ER diagrams.</i>	
16:30	Karimi et al <i>Minimum Cost Homomorphism to Oriented Cycles with Some Loops.</i>	Lister and Box. <i>A citation analysis of the ACE2005 - 2007 proceedings, with reference to the June 2007 CORE conference and journal rankings.</i>	Hagemann and Vossen. <i>ActiveTags: Making tags more useful anywhere on the Web.</i>	AISC Invited Talk (continued).	Nakayama and Katsukura. <i>Assessing Usability for Input Operation using Frequency Components of Eye-movements.</i>	
17:00	Matsubara et al <i>Testing Square-Freeness of Strings Compressed by Balanced Straight Line Program.</i>	Shuhidan et al <i>A Study of Novice Programmer Responses in Summative Assessment.</i>	Stantic and Pupunwivat <i>Unified Q-ary Tree for RFID Tag Anti-Collision Resolution.</i>	Fusenig et al <i>Slotted Packet Counting Attacks on Anonymity Protocols.</i>	Kim and Lutteroth. <i>Multi-Platform Document-Oriented GUIs.</i>	
17:30		Carbone et al <i>A model of internal factors influencing student learning of programming.</i>	Lister and Box. <i>A Citation Analysis of the ADC 2006 – 2008 Proceedings, with Reference to the CORE Conference and Journal Rankings.</i>	Alcalde et al <i>Towards a Decision Model Based on Trust and Security Risk Management.</i>	Jones and Munro <i>Using Machinima to Promote Computer Science Study</i>	

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
Day 2: Wednesday						
Conf. / Chair	<u>CATS #2</u> <i>Rod Downey</i>	<u>ACE #3</u> <i>Michael de Raadt</i>	<u>ADC #3</u> <i>Annika Hinze</i>	<u>AISC #3</u> <i>Juanma Gonzalez Nieto</i>	<u>AUSGRID #1</u> <i>Wayne Kelly</i>	<u>ACSC #2</u> <i>Jenny Edwards</i>
09:00	Day. <i>On Process Complexity.</i>	Hitchens and Lister <i>A Focus Group Study of Student Attitudes to Lectures.</i>	Stanley et al <i>S.E.A.L. – A Query Language for Entity-Association Queries.</i>	Notoatmodjo and Thomborson. <i>Passwords and Perceptions.</i>	Martinaitis and Wendelborn. <i>Stream-Components: Component based Stream computation on the Grid.</i>	Li et al <i>Privacy-aware Access Control with Generalization Boundaries.</i>
09:30	Ndukwu and Sanders. <i>Reasoning About a Distributed Probabilistic System.</i>	Lönnberg et al <i>How Students Develop Concurrent Programs.</i>	Ravana and Moffat. <i>Score Aggregation Techniques in Retrieval Experimentation.</i>	Tu and Thomborson. <i>Preliminary Security Specification for New Zealand's igovt System.</i>	Tan et al <i>Optimizing Tunneled Grid Connectivity across Firewalls.</i>	Sun et al <i>Microdata Protection Through Approximate Microaggregation.</i>
10:00 – 12:30	<i>Morning Tea (Oceania Room) & Keynote Address by Ian Foster (Soundings Theatre) & Lunch (Oceania Room) – see programme in middle of book</i>					
Conf. / Chair	<u>CATS #3</u> <i>David Pearce</i>	<u>ACE #4</u> <i>Simon</i>	<u>ADC #4</u> <i>Vossen & Li</i>	<u>AISC #4</u> <i>Clark Thomborson</i>	<u>AUSGRID #2</u> <i>Andrew Wendelborn</i>	<u>ACSC #3 / APCCM</u> <i>Chris Johnson / Sebastian Link</i>
13:30	Ishii and Makino <i>Augmenting Edge-Connectivity between Vertex Subsets.</i>	Denny et al, <i>Quality of student contributed questions using PeerWise.</i>	Invited Talk Georgakopoulos <i>Engineering Agile Systems.</i>	Arai and Tanaka. <i>Proposal for Effective Information Flow Control Model for Sharing and Protecting Sensitive Information.</i>	Dabrowski and Hunt. <i>Using Markov Chain Analysis to Study Dynamic Behaviour in Large-Scale Grid Systems.</i>	Wojnar and Andreae <i>HOPPER: A Hierarchical Planning Agent for Unpredictable Domains.</i>

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
Day 2: Wednesday (continued)						
14:00	Saifullah and Ungor <i>A Simple Algorithm For Triconnectivity of a Multigraph.</i>	Fidge and Teague. <i>Losing their Marbles: Syntax-Free Programming for Assessing Problem-Solving Skills.</i>	ADC Invited Talk (continued).	Liu et al <i>Open and Trusted Information Systems/Health Informatics Access Control (OTHIS/HIAC).</i>	Liu et al <i>A Min-Min Average Algorithm for Scheduling Transaction-Intensive Grid Workflows.</i>	Zarnegar et al <i>Inference of Gene Expression Networks Using Memetic Gene Expression Programming.</i>
14:30	Nakazawa and Tatsuta <i>Type Checking and Inference for Polymorphic and Existential types.</i>	ACE Panel <i>Second Life.</i>	Danko and Skopal <i>Elliptic Indexing of Multidimensional Databases.</i>	Ramsurrun and Soyjaudah. <i>The Stateful Cluster Security Gateway (CSG) Architecture for Robust Switched Linux Cluster Security.</i>	Leist and Hawick. <i>A Small-World Network Model for Distributed Storage of Semantic Metadata.</i>	APCCM Invited Talk Hausser <i>Modeling Natural Language Communication in Database Semantics.</i>
15:00	Utting et al <i>Transformation Rules for Z.</i>	ACE Panel (continued).	Choi and Wong <i>Efficient XQuery Join Processing in Publish/Subscribe Systems.</i>	AISC Business Meeting.	Cohen et al <i>Node-level Architecture Design and Simulation of the MAGOG Grid Middleware.</i>	APCCM Invited Talk (continued).
15:30	<i>Afternoon Tea (Oceania Room)</i>					

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
Day 2: Wednesday (continued)						
Conf. / Chair	<u>CATS #4</u> <i>David Pearce</i>	<u>ACE #5</u> <i>Raymond Lister</i>	<u>ADC #5</u> <i>Peter Andreae</i>	<u>APCCM # 1</u> <i>Pavle Mogin & Gottfried Vossen</i>	<u>AUSGRID #3</u> <i>Wayne Kelly</i>	<u>ACSC #4</u> <i>Alex Potanin</i>
16:00	Estivill-Castro and Parsa. <i>Computing Nash Equilibria Gets Harder:</i>	Invited Talk Phillipps & Sterling <i>A Perspective on the International Olympiad in Informatics for CS educators.</i>	Hinze et al <i>Event-based Communication for Location-Based Service Collaboration.</i>	Nečaský <i>Reverse Engineering of XML Schemas to Conceptual Diagrams.</i>	Lynar et al <i>A Grid Resource Allocation Mechanism for Heterogeneous E-waste Computers.</i>	Lokan and Mendes <i>Using Chronological Splitting to Compare Cross- and Single-company Effort Models: Further Investigation.</i>
16:30	Fukuhara and Takimoto <i>Lower Bounds on Quantum Query Complexity for Read-once Decision Trees with Parity Nodes.</i>	ACE Invited Talk (continued).	Tran et al <i>Mobile Information Exchange and Integration: From Query to Application Layer.</i>	Thies and Vossen <i>Modelling Web-Oriented Architectures.</i>	Nam and Teo. <i>An Approach to Vickrey-based Resource Allocation in the Presence of Monopolistic Sellers.</i>	Liu. <i>Verification of the SIP Transaction Using Coloured Petri Nets.</i>
17:00	Limaye et al <i>Longest Paths in Planar DAGs in Unambiguous Logspace</i>	Falkner and Munro <i>Easing the Transition: A Collaborative Learning Approach.</i>		Schäfer and John <i>Conceptual Modeling and Analysis of Spatio-Temporal Processes in Biomolecular Systems.</i>	Invited Talk Ashley Buckle <i>Impact of Grid Computing in Structural Biology.</i>	
17:30		Laxer et al <i>Evolution of an International Collaborative Student Project.</i>		Altmanninger and Kotsis <i>Towards Accurate Conflict Detection in a VCS for Model Artifacts: A Comparison of Two Semantically Enhanced Approaches.</i>	Plenary Discussion	

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
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Day 3: Thursday

Conf. / Chair	<u>CATS #5</u> <i>James Harland</i>	<u>ACE #6</u> <i>John Hurst</i>	<u>ADC #6</u> <i>Raymond Wong</i>	<u>APCCM #2</u> <i>Roland Hausser</i>		<u>ACSC #5</u> <i>Kenneth Hawick</i>
09:00	Cao and Nymeyer <i>Formal Model of a Protocol Converter</i>	Tempero <i>Experiences in Teaching Quality Attribute Scenarios.</i>	He et al <i>Access Control: What is Required in Business Collaboration?</i>	Thalheim et al <i>Conceptual Application Domain Modelling.</i>		Liang et al <i>Discovering Itemset Interactions.</i>
09:30	Henshall et al. <i>Boolean Affine Approximation with Binary Decision Diagrams.</i>	Teague <i>A People-First Approach to Programming.</i>	Böttcher and Hartel <i>CSC: Supporting Queries on Compressed Cached XML.</i>	Neumayr et al <i>Multi-Level Domain Modeling with M-Objects and M-Relationships.</i>		Chau et al <i>A ConceptLink Graph for Text Structure Mining.</i>
10:00	<i>Morning Tea (Oceania Room) & Keynote Address (Soundings Theatre) & Lunch (Oceania Room) – see overall programme in middle of book</i>					
Conf. / Chair	<u>CATS #6</u> <i>Petra Malik</i>	<u>ACE #7</u> <i>Judy Sheard</i>	<u>ADC #7</u> <i>Irena Mlynkova</i>	<u>APCCM #3</u> <i>Annika Hinze</i>	<u>HIKM #1</u> <i>Jim Warren</i>	<u>ACSC #6</u> <i>Gillian Dobbie</i>
13:30	Farago <i>Structural Properties of Random Graph Models.</i>	de Raadt et al <i>Teaching and Assessing Programming Strategies Explicitly.</i>	Tam and Shepherd <i>Information retrieval in structured domain.</i>	Invited Talk Kiyoki and Chen <i>A Semantic Associative Computation Method for Automatic Decorative-Multimedia Creation with "Kansei" Information.</i>	Maeder <i>Assessing Viewing Pattern Consistency in Mammogram Readers.</i>	Holkner and Harland <i>Evaluating the Dynamic Behaviour of Python Applications.</i>
14:00	Vyatkina <i>Linear Axis for Planar Straight Line Graphs.</i>	Simon et al <i>Surely We Must Learn to Read before We Learn to Write!</i>	Li <i>Ranking-Constrained Keyword Sequence Extraction from Web Documents.</i>	APCCM Invited Talk continued	Quinn et al <i>A classification algorithm that derives weighted sum scores for insight into disease.</i>	Gani and Ryan <i>Improving the Transparency of Proxy Injection in Java.</i>

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
Day 3: Thursday (continued)						
14:30	Pearce et al <i>Edge-Selection Heuristics for Computing Tutte Polynomials</i>	Invited Talk Whalley & Lister <i>The BRACElet 2009.1 (Wellington) Specification.</i>	Kabir and Wang <i>Conditional Purpose Based Access Control Model for Privacy Protection.</i>	Kühne <i>Contrasting Classification with Generalisation.</i>	Nguyen et al <i>Characterizing Image Properties for Digital Mammograms.</i>	Aljasser and Schachte <i>ParaAJ: toward Reusable and Maintainable Aspect Oriented Programs.</i>
15:00	Ganguly. <i>Distributing Frequency-Dependent Data Stream Computations</i>	ACE Invited Talk (continued).		McIlvenna et al <i>Synthesis of Orchestrators from Service Choreographies.</i>	Liu et al <i>Privacy and Security in Open and Trusted Health Information Systems.</i>	Nguyen et al <i>A Domain Specific Language for Execution Profiling & Regulation.</i>
15:30	Afternoon Tea (Oceania Room)					
Conf. / Chair	<u>CATS #7</u>	<u>ACE #8</u>		<u>APCCM #4</u> <i>Gillian Dobbie</i>	<u>HIKM #2</u> <i>T. Goh & J. Warren</i>	<u>ACSC #7</u> <i>Kris Bubendorfer</i>
16:00	CATS Business Meeting	SIGCSE Meeting (ACE)		Morrison et al <i>Business Process Integration: Method and Analysis.</i>	Malik et al <i>Understanding and Overcoming Barriers to Implementation of an Electronic Health Record System in Pakistan: a case study of a developing country.</i>	Askitis <i>Fast and Compact Hash Tables for Integer Keys.</i>
16:30	CATS Business Meeting (continued)	SIGCSE Meeting (ACE, continued)		Liegl. <i>Conceptual Business Document Modeling using UN/CEFACT's Core Components.</i>	Knight et al <i>GP attitudes towards using HI Systems in their professional role.</i>	

<u>Time</u>	<u>Angus Room</u>	<u>ICON</u>	<u>Rangimarie #1</u>	<u>Rangimarie #2</u>	<u>Rangimarie #3</u>	<u>Soundings</u>
Day 3: Thursday (continued)						
17:00				Noah et al <i>Extracting and Modeling the Semantic Information Content of Web Documents to Support Semantic Document Retrieval.</i>	HIKM Invited Talk <i>Making 12,000 Healthcare Organisations Interoperate, and Other Challenges.</i>	
17:30				Hasegawa et al. <i>Extracting Conceptual Graphs from Japanese Documents for Software Requirements Modeling.</i>		

Special Meetings

There are four special meetings planned during the week that are invite-only. These special meetings are the CORE Meeting, the NZ Heads of Schools Meeting, the ACSW Chairs Meeting and the CORE Heads of Schools Meeting.

All meetings will be held in the meeting room inside the Oceania Room.

CORE Meeting

The CORE meeting is open to members of the CORE executive, and will be held during lunch on Tuesday.

NZ Heads of Schools Meeting

The NZ Heads of Schools Meeting will be held from 1:30pm to 6:00pm on Tuesday.

ACSW Chairs Meeting

The ACSW Chairs Meeting will be held during lunch on Wednesday.

CORE Heads of Schools Meeting

The CORE Heads of Schools Meeting will be held from 1:30pm until 6:00pm on Thursday.

Events

Powhiri – Te Papa, Monday 5:30pm

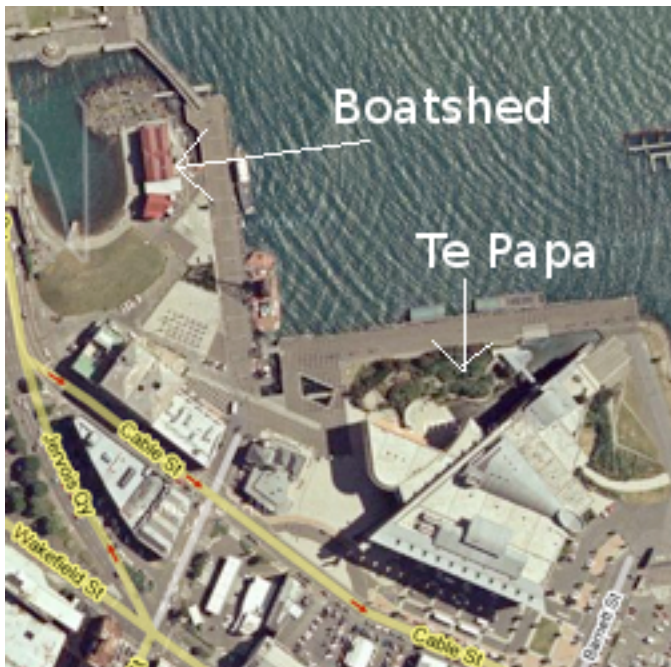
ACSW2009 opens with a traditional New Zealand ceremony. The Powhiri is a Maori welcoming ceremony, normally used to welcome visitors onto the Marae (the courtyard in front of the meeting house). The various elements of the Powhiri serve to ward off evil spirits and unite both visitor and host in an environment of friendship and peace. An important component of a powhiri is the sacred act of hongī (the pressing of noses). Below is a description of the Powhiri protocol.

Reception – Te Papa (Oceania Room), Monday 7:00pm

After the Powhiri, attendees are welcome to come to the Oceania Room where there will be a conference reception. Attendees will get a free drink and finger food, and there will be a cash bar for further drinks purchases. There is an EFTPOS machine on the ground floor of Te Papa by the main entrance.

Conference Dinner – Boatshed Restaurant, Thursday 7:00pm

The conference dinner will be held on Thursday in the Boatshed Restaurant on the Wellington Waterfront. The restaurant is only a few minutes walk around the waterfront from the conference venue. If attendees have spare tickets that they will not need, please consider giving them to the registration desk in the Oceania Room, as we can then redistribute these tickets to student attendees.



Computers

Conference attendees are welcome to access the Internet via a wireless network provided by our Gold Sponsor: CityLink. The wireless network will be accessible within the conference rooms and corridors, but not within the wider museum. The network supports http and https traffic.

Attendees need only connect to the wireless network *ACSW2009*. There is no username or password required.

There will be desks and power points for your laptops inside the Oceania Room on level 3 of the venue.

Cuisine

Conference attendees will be given morning tea, lunch and afternoon tea on Tuesday, Wednesday and Thursday, and morning tea on Friday. This will be served in the Oceania Room on level 3 of the venue.

Please note that meals are created in a kitchen that follows Halal rules. If you have any concerns regarding this, please contact the conference information desk.

There will be vegetarian options available.

Please note that you cannot take food or drink out of the Oceania Room.

Conference Rooms

The conference will be held on levels 2 and 3 of the venue.

Please note: that Te Papa is open from 10am until 6pm. However, attendees can access the venue from 8:30am by asking one of the ushers at the door to direct them to their conference room.

Soundings Theatre

The Soundings Theatre is on level 2 of the venue. The Soundings Theatre will host all of the keynote speeches, along with ACSC conference and the APCCM invited talk.

ICON

The ICON Function Center is on level 2 of the venue. The foyer will host the ACE conference, and the SIGCSE general meeting.

Oceania Room

The Oceania Room is on level 3 of the venue, at the opposite end of the building to the TelstraClear Center (also on level 3). The Oceania Room will host the morning and afternoon teas, as well as the conference lunches. Support for laptops will be provided in the Oceania Room, along with a registration desk where attendees can register and ask questions.

Angus Room

The Angus Room is in the TelstraClear Center on level 3 of the venue. The Angus Room will host the CATS conference and business meeting.

Rangimarie Rooms (#1, #2 & #3)

The three Rangimarie Rooms are in the TelstraClear Center on level 3 of the venue. The three rooms hold 140, 80 and 40 people respectively. All three rooms are accessible via the central foyer in the TelstraClear Center. These rooms will host ADC, AUIC, AUSGRID, HKIM, AISC and APCCM (except for the invited talk) conferences.

Maps

Te Papa Level 2

Level 2 of Te Papa contains the Soundings Theatre and the ICON.



Te Papa Level 3

Level 3 of Te Papa includes the TelstraClear Centre (Angus Room & Rangimarie Rooms), along with the Oceania Room at the other end of the floor.

