

Call for Abstracts

Our theme “**Simulation – Maximising Organisational Benefits**” focuses on the opportunities that simulation provides to deliver results in alignment with organisational objectives – such as an integrated analysis and communication tool suite for all business units, reducing the cost of ownership through simulation, or improving the quality of training and learning. It encompasses the cost-effective use of simulation for experimentation and analysis, concept and capability development, system design refinement and validation, process and systems modelling, and in the training of users.

This applies to customers and suppliers alike, in all sectors – including defence, aerospace, mining, construction, manufacturing, transport, homeland security, education and business sectors .

The **SimTecT 2008** Conference and Exhibition builds on the success of the previous twelve SimTecTs to provide an opportunity for the simulation community to discover the latest research and product advances, and to discuss applications with developers and users.

I look forward to seeing you in Melbourne on the 12th May 2008.

Jawahar Bhalla
Conference Convenor

In 2008 we are again using the START papers submission process and also continuing to use:

- Areas and Specialisations to allow papers with common elements to be grouped together, providing a relevant conference experience for delegates
- A poster category for on-going visual display of presenters' work
- Publication of all Abstracts in the Program Handbook as a valuable reference point for conference participants
- Continuing with the use of an ISBN registration for the Proceedings, and providing open access to all papers on the SIAA's web-site, six months after the Conference. This enables broader access to the papers as a valuable resource for the world-wide simulation community

We are especially interested in papers that unite theory and practice, providing the industry and its researchers and practitioners with a rich mixture of concepts, ideas and practical applications. Students are particularly encouraged to submit abstracts as an opportunity to share their emergent ideas and research goals with a large and well-qualified audience. There are substantial Best Paper awards to reward excellence.

Dr Elysabeth Leigh
Papers Convenor

Focus Areas

SimTecT 2008 is seeking papers from all areas related to simulation, training and modeling — particularly indicating the actual or potential means by which simulation can be used under the theme ‘Simulation – Maximising Organisational Benefits’.

Case studies describing experiences and lessons learned are particularly welcome. **Student participation** is actively encouraged.

The program, keynotes and workshops have been structured to focus on six main areas:

Defence

- Simulation to support Force employment
- Command & Control
- Network-Centric Warfare
- Simulation support to acquisition

Transportation, Aerospace, Civil Aviation

- Regulatory frameworks, certification standards and training benefits
- Rail and vehicle simulation and training

Homeland Security

- Experimentation / new capabilities
- Emergency management
- Critical infrastructure protection

Mining / Construction / Manufacturing

- Training benefits
- Certification standards for simulators, curriculum and instructors
- Workforce issues
- Safety implications
- Integration of Simulation Systems

Social and Organisational Learning

- Human factors
- Adult learning principles and applications
- Facilitation skills
- Design and operational implications
- Online role-play
- Business and human behaviour simulations

Serious games

- First person
- Multi player

Specialisations

Within these Focus Areas, the Papers on the following life-cycle oriented specialisations are encouraged:

1 Policy and Management, including:

- Validation, Verification and Accreditation
- Data management
- Financing of training systems (including leasing, private finance initiatives etc)
- Cost benefit analysis of simulation systems
- Policy issues
- Acquisition strategies
- History of simulators
- Standards
- Business modelling

2 Analysis & Experimentation, including:

- Simulation support to acquisition
- Experimentation
- Reliability, availability, maintainability modelling
- Lifecycle support modelling

3 Development Methodologies, including:

- Knowledge elicitation and capture
- Experiment design
- Performance monitoring
- Systems engineering
- Metrics
- Simulator fidelity analysis
- Optimisation
- Algorithms

4 Simulation and Training Technologies, including:

- Multimedia
- Computer / web-based training
- Intelligent tutoring systems
- Visual systems
- Databases
- Motion bases and control loading
- Simulator sickness

- Simulation tools
- Constructive simulation
- Low-cost simulation
- Behavioural modelling
- Computer Generated Forces
- Intelligent agents
- Artificial Intelligence
- Semi-Automated Forces

5 Synthetic Environments, including:

- Design and development of Synthetic Environments
- After Action Review
- Synthetic environments methodology
- Scenario management
- Synthetic environment based capability development
- Virtual Reality

6 Distributed Simulation, including:

- Distributed study environments
- Networks
- Simulation interoperability
- Data interchange
- High Level Architecture
- Distributed Interactive Simulation
- Simulation and Federation Object Models

7 Training, including:

- Training analysis, design, execution and evaluation
- Learning theory
- Embedded training
- Technology based training
- Distance / distributed learning
- Team training
- Training transfer
- Human factors
- Performance assessment
- Mission rehearsal

8 Operations, including:

- Planning and decision support
- Command and Control
- Joint operation

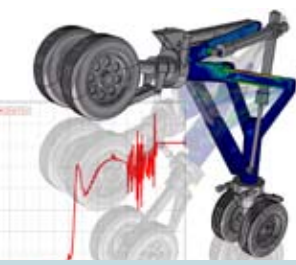


Image courtesy: MSC Software



Image courtesy: 5DT



Photo courtesy: Rail Corporation NSW



Photo courtesy: Immersive Technologies

Abstracts and Papers Requirements

Abstract Submission Requirements

Abstracts must be submitted via the website www.simtect.com/2008

All Accepted Abstracts will be published in the Conference Program and Handbook.

Paper Submission Requirements

Papers must conform to the template which is available on the website. The papers must be unclassified and must include appropriate copyright, company and/or government clearance. Authors will be required to identify the suggested Focus Area, and Specialisation of their paper in the conference.

Papers previously presented or published as well as marketing papers will not be accepted.

Failure to follow the template, or the above conditions, may result in the paper being rejected.

Papers must be submitted via the website www.simtect.com/2008

Presentation Formats

SimTecT again offers the opportunity for Poster, or Conference Presentations.

Conference Presentation

Presenters will have a total of 15 minutes to go through their key points (in a 20 minute session), and are encouraged to make the period as interactive as possible.

Acceptance of the paper shall be accompanied by details of speaker requirements, and a copyright release form.

Audio-visual aids will be provided for PowerPoint 2000 for Windows2003 (or equivalent). Computers with CDs shall be provided. Presenters may use their own laptops by special arrangement. While other presentation media will only be permitted with prior arrangement, you are encouraged to engage your audience as much as possible.

An optional PowerPoint template is available from the web-site.

Poster

Authors may elect, or the Review Committee may select presentations to be given in Poster format.

An area in the Exhibition hall will be set aside for display of posters, or optionally, a computer display (using the author's equipment, and with special prior arrangement with the Conference Organisers).

The author will be expected to be available at their Poster position at the designated time(s) to present their work.

Conference Proceedings

Accepted Papers will be published in the Conference Proceedings. The Organising Committee is encouraging the simulation community to read and cite the papers by making them freely available on the SIAA's web-site (six months after the Conference), and by allocating ISBN numbers to both the hardcopy and CD Proceedings.

Refereed Papers

SimTecT 2008 will include a Refereed Papers stream. Authors will be able to submit papers for formal peer review in accordance with research council guidelines. Note that this facility is aimed at the academic community. Papers do **not** have to be refereed to qualify for the Best Paper Awards.

Best Paper Awards

The Technical Committee makes two awards, Best Paper, and Best Student Paper. The recipient of the Best Paper award will be eligible to attend and present at the 2008 I/ITSEC Conference in Orlando, USA with AUD \$5,000 contribution towards registration, travel and accommodation from the SIAA.

The Best Student Paper author will attend and present at **SimTecT 2009**, with AUD \$2,000 contribution towards registration, travel and accommodation from the SIAA. Details of the awards will be provided on the **SimTecT 2008** web site.

Key Dates

14 September 2007	Last date for abstracts (refereed papers)
5 October 2007	Abstracts accepted (refereed papers)
14 December 2008	Last date for abstract submission (non-refereed papers)
14 December 2008	Last date for refereed papers submission
1 February 2008	Non-refereed papers abstracts accepted/rejected (The intention is for abstracts to be accepted/rejected as they are submitted)
29 February 2008	Reviews back for refereed papers
14 March 2008	Last date for submission of all papers
21 March 2008	Last date for presenters to register for Conference (Early Bird Registration cut-off)
12 May 2008	Presenters and Session Chairs briefing
12–15 May 2008	SimTecT 2008 Conference

Note: Authors should allow sufficient time in their schedule for having their paper undergo their organisation's necessary internal technical and legal reviews.

Conference Program

A draft of the program for **SimTecT 2008** will be released on the **SimTecT 2008** website (www.simtect.com/2008) six [6] weeks prior to the Conference. The Final Program will be released 4 weeks prior.

Author Registration

Authors must register for the Conference, in order for them to present, and for their papers to be included in the Conference Proceedings.

Further Information

For further information about the submission of papers, please contact the Papers Convenor, Dr Elyssebeth Leigh at: simtect_abstracts@siaa.asn.au or visit the **SimTecT 2008** website: www.simtect.com/2008

Sponsorship & Exhibition

For information regarding sponsorship/exhibition at **SimTecT 2008**, please contact Savita Khiani or Barry Neame, the Conference Managers (see below).

Conference Managers

For further information about the Conference contact the Conference Managers:

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Consec — Conference Management
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www.simtect.com/2008

Melbourne Convention and Exhibition Centre
Melbourne AUSTRALIA
Monday 12 May–Thursday 15 May 2008
www.simtect.com/2008

SimTecT2008
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