

Important Dates

Paper Submission	24rd March 2010
Review Rebuttal Period	13th – 17th April 2010
Final Decision	20th April 2010
Camera Ready Copies	30th April 2010
Conference	26th – 29th July 2010

Organising Committee

General Chairs

Emma Hart	Chris McEwan
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Vice-Chairs / Stream Leaders

Applied Stream	Jon Timmis
Immune Modelling Stream	Stephanie Forrest
Theoretical Stream	Andy Hone

Publicity Chair	Mark Read
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Location

This year's ICARIS will be held in Scotland's historical capital, Edinburgh. A city with an international reputation in cultural events, the ICARIS conference is squeezed between the International Film Festival and the Fringe, the biggest arts and comedy festival in the world.

PerAda Workshop

A workshop on Biologically Inspired Pervasive Adaptation will be held as an integral part of the conference, sponsored by PerAda, the EU Coordination Action for Pervasive Adaptation. See conference website.

More Information

Further details are available from the conference website

<http://www.artificial-immune-systems.org/icaris/2010/>

Aims and Scope

Artificial immune systems (AIS) is a diverse and maturing area of research that bridges the disciplines of immunology and engineering. The scope of AIS ranges from modelling and simulation of the immune system through to immune-inspired algorithms and engineering solutions.

In recent years, algorithms inspired by theoretical immunology have been applied to a wide variety of domains, including computer security, fault tolerance, data-mining and optimisation. Increasingly, theoretical insight into aspects of artificial and real immune systems has been sought through mathematical and computational modelling and analysis.

The 9th International Conference on AIS (ICARIS) aims to build on the success of previous years to provide a forum for AIS researchers in academia and industry to present and discuss their latest advances. In addition to peer-reviewed papers, ICARIS will present a range of plenary lectures and tutorials to inspire and facilitate both the computer scientist and immunologist in their work.

To encourage dialogue with the theoretical and clinical immunology communities, ICARIS 2010 will again adopt an (optional) extended abstract submission for the immune modelling stream. Full papers are welcome, but extended versions of abstracts will not be required. All accepted abstracts will be published alongside full papers in the proceedings.

Streams

The conference programme will be partitioned into three streams

Theoretical Stream

This stream is for papers describing theoretical aspects of AIS, excluding theoretical immunology. This includes (but is not limited to) mathematical modelling of algorithms, convergence analysis, empirical investigation into algorithm performance and complexity analysis. To make sure the paper appeals to the widest possible audience, the mathematics should be clearly presented, and the paper should discuss the practical implications of any theoretical results.

Applied Stream

This stream is for papers describing the application of AIS to computational and engineering problems. The problem domain should be clearly explained, detailing why it is challenging and why AIS are a suitable methodology to use. Experiments should be carefully explained, with the expectation that appropriate statistical analysis of results will be used to help draw conclusions. Where possible, the approach taken should be compared with alternative strategies.

Immune Modelling Stream

This stream is for work detailing models and simulations of real and artificial immune systems. Authors are asked to be mindful of the inter-disciplinary nature of the forum when presenting their work. Extended abstracts or full papers are invited for submission. Both will undergo the same review process for quality and relevance.

Submissions

Full papers should not be longer than 14 pages of LNCS, and extended abstracts for the modelling stream not more than 3 pages. Overly long submissions may be rejected at the reviewers discretion. All submissions should follow the formatting guidelines detailed by Springer

<http://www.springer.com/computer/lncs>

Following the reviews, a consultation period will be held, where authors will have 1 week to respond to reviewers comments if they wish. This is designed to increase the quality of papers, and remove any misunderstandings that may happen as part of the review process.