



ICES'03

The 5th International Conference on Evolvable Systems: From Biology to Hardware

17th - 20th March 2003
Trondheim, Norway

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Organising Committee:

Andy M Tyrrell , York, UK	General Chair
Pauline C Haddow , NTNU	co-chair
Jim Tørresen , UIO	co-chair
Keith Downing , NTNU	Local Chair
Gunnar Tufte , NTNU	Publicity Chair

Program Committee:

More information about the field of evolvable hardware may be found by following the links of the members of our program committee.

Topics:

Evolving hardware systems.
Evolutionary hardware design methodologies.
Evolutionary design of electronic circuits.
Self-replicating hardware.
Self-repairing hardware.
Embryonic hardware.
Neural hardware.
Adaptive hardware platforms.
Autonomous robots.
Evolutionary robotics.
Bio-robotics.
Applications of nanotechnology.
Biological- and chemical-based systems.
DNA computing.
Morphogenesis.
Evolutionary approach to MEMS (Micro Electro Mechanical Systems).
Adaptive Optics.

Conference Venue:

Radisson SAS Royal Garden Hotel,
Trondheim, Norway

March 17th 2003

Tutorials

March 18-20, 2003.

Keynote and invited speakers, panel debate, poster session and technical presentations

The idea of evolving machines, whose origins can be traced to the cybernetics movement of the 1940s and the 1950s, has recently resurged in the form of the nascent field of bio-inspired systems and evolvable hardware. The inaugural workshop, Towards Evolvable Hardware, took place in Lausanne in October 1995, followed by the First International Conference on Evolvable Systems: From Biology to Hardware (ICES96), held in Japan in October 1996, the second International Conference on Evolvable Systems: From Biology to Hardware (ICES98), held in Lausanne in September 1998, with the third and fourth being held in Edinburgh 2000, and Tokyo 2001.

The fifth international conference will build on the success of its predecessors aiming at presenting the latest developments in the field, bringing together researchers who use biologically inspired concepts to implement real systems in artificial intelligence, artificial life, robotics, VLSI design and related domains. The proceedings will be published by Springer-Verlag in their LNCS series.

Important Dates:

Paper submissions:

27th August

Notice of acceptance :

2nd November

Camera-ready papers:

8th December

Keynotes

Nano- and Biotechnology:

Ivar Giaever,

University of Oslo

Evolutionary Robotics:

Dario Floreano,

Swiss Federal Institute of Technology

Quantum Computing:

Colin Williams

Stanford University and JPL

Tutorials

Evolutionary Algorithms

Peter Bentley,

University College London

Evolvable Hardware and Reconfigurable Devices

Adrian Thompson,

University of Sussex

Nanotechnology

to be confirmed

Trondheim:

Trondheim is a beautiful city in the centre of Norway. It is on the fjord, surrounded by wooded hillsides and mountainous countryside nearby.

Unlike many parts of Europe it is still winter in Trondheim in March. We therefore recommend winter clothing and boots.