

Call for Papers or Posters

**Eighth International Conference on
UNCONVENTIONAL COMPUTATION
UC 2009**

University of Azores, Ponta Delgada – Portugal

September 7th – 11th, 2009

<http://www.uc09.uac.pt>

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UC 2009 is organized by the University of Azores at Ponta Delgada, Portugal, and CDMTCS, University of Auckland, New Zealand, under the auspices of EATCS. **Original papers/posters** are solicited in all areas of unconventional computation. Papers/posters dealing with theory as well as with experiments and applications are welcome. Typical, but not exclusive, topics are: natural computing including quantum, cellular, molecular, neural, and membrane computing as well as evolutionary paradigms; chaos and dynamical systems based computing; proposals for computations going beyond the Turing model. **Submissions:** Authors are invited to submit papers (at most 12 pages) or posters (between A1 and A3 format) electronically, via EasyChair:

<http://www.easychair.org/conferences/?conf=uc09>.

All submissions are expected to be in PDF format. Joint submissions to other conferences are not permitted. Each accepted paper/poster must be presented at the conference. The author of the poster is responsible for printing. The proceedings (only for papers) will be published by Springer LNCS series and will be available at the conference.

Invited Speakers: Edwin BEGGS, *Experimental Computation*, Jarkko KARI, *Cellular Automata*, Carlos LOURENÇO, *Brain Dynamics*, Przemyslaw PRUSINKIEWICKZ, *Developmental Computing*, Lukáš SEKANINA, *Evolvable Hardware: From successful applications to implications for the theory of computation*, Philip WELCH, *Relativistic Computers and Transfinite Computation*. **Tutorials:** Manuel Lameiras CAMPAGNOLO, *Analogous Computation*, James CRUTCHFIELD, *Computational Mechanics: Natural Computation and Self-Organization*, Martin DAVIS, *Diophantine Equations*. **Workshops:** Hyper-computation, Novel Computing Substrates, Physics and Computation.

Conference Location: The conference and the associated workshops will take place at the University of Azores, city of Ponta Delgada, at modern and well equipped auditoriums, side by side with the magnificent building of the Rectory, surrounded by a nice and peaceful garden.

Conference History: The first venue of the **Unconventional Computation Conference** (formerly called **Unconventional Models of Computation**) was Auckland, New Zealand, in 1998; subsequent sites of the conference were Brussels, Belgium, in 2000; Kobe, Japan, in 2002; Seville, Spain, in 2005; York, UK, in 2006; Kingston, Canada, in 2007 and Vienna, Austria, in 2008.

Organizing Committee: José Félix COSTA (chair), Elisabete FREIRE, Matthias FUNK, Luís Mendes GOMES, Hélia GUERRA.

Important Dates

Submissions Due: April 10th, 2009

Notification: May 8th, 2009

Final Versions Due: June 5th, 2009