Call for Papers

Fourth International Conference on
UNCONVENTIONAL COMPUTATION (UC'05)

University of Sevilla, Spain
CDMTCS, University of Auckland, New Zealand
3–7 October 2005. Sevilla, Spain
`www.cs.auckland.ac.nz/uc05`

Organising Committee

M. Cavaliere, Sevilla
C. Graciani Díaz, Sevilla
M.A. Gutiérrez Naranjo, Sevilla
A. Nepomuceno Fernández, Sevilla
Gh. Păun, Sevilla
M.J. Pérez Jiménez, Sevilla, chair
F.J. Romero Campero, Sevilla
A. Riscos Núñez, Sevilla
A. Romero Jiménez, Sevilla
F. Sancho Caparrini, Sevilla
D. Sburlan, Sevilla

Programme Committee

L. Accardi, Rome
I. Antoniou, Thessaloniki
M. Arbib, Los Angeles, CA
C.S. Calude, Auckland, chair
D.G. Cory, Cambridge, MA
M.J. Dinneen, Auckland, secretary
P. Érdi, Kalamazoo, MI
M.P. Frank, Tallahassee, FL
V.V. Ivanov, Dubna
N. Jonoska, Tampa, FL
N. Krasnogor, Nottingham
J. van Leeuwen, Utrecht
K. Morita, Hiroshima
M. Mozer, Boulder, CO
M.A. Nielsen, Queensland
E. Oja, Helsinki
Gh. Păun, Sevilla
I. Petre, Turku
P. Rothemund, Pasadena, CA
M. Schoenauer, Paris
T. Toffoli, Boston, MA
H. Umeo, Osaka
R. Weiss, Princeton, NJ
T. Yokomori, Tokyo

Proceedings Committee

C.S. Calude, Auckland
M.J. Dinneen, Auckland
Gh. Păun, Sevilla
M.J. Pérez Jiménez, Sevilla
G. Rozenberg, Leiden

Important Dates

Submissions Due:	15 April 2005
Notification:	1 June 2005
Final Copies Due:	30 June 2005

Original papers are solicited in *all* areas of unconventional computation. Papers 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 evolutionary computing; chaos and dynamical systems based computing; and various proposals for computations that go beyond the Turing model.

Submissions: Authors are invited to submit papers (at most 12 pages) electronically via `www.cs.auckland.ac.nz/uc05`. All submissions are expected to be in PDF format. Inquires about the submission procedure and format may be sent to the secretary M. Dinneen at `mjd@cs.auckland.ac.nz`.

Joint submissions to other conferences are *not* permitted. Each accepted paper *must* be presented at the conference. The proceedings will be published by Springer LNCS series.

Invited Speakers: T. Bäck (Leiden), L. Grover (Murray Hill), S. Istrail (Rockville), N. Seeman (New York), C. Torras (Barcelona).

Cost of Participation: The registration fee is EUR 400 which includes proceedings, reception, excursion, refreshments, and conference dinner. Registration before 30 June 2005 is EUR 350. Student registration (which includes proceedings) is EUR 50.

Conference Location: Sevilla is one of the most beautiful cities in Spain. An explosion of colour and contrast: flamenco, bullfighting, and a lively atmosphere in the streets due to the open and friendly nature of its people. The river Guadalquivir, the Cathedral and the Golden Tower are all places full of magic where the visitor can feel the spirit of a city which is eternally romantic.

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 and Kobe, Japan in 2002. The **Unconventional Computation** Conference web-page is `www.cs.auckland.ac.nz/uc`.

Steering Committee: T. Bäck, Leiden, C.S. Calude, Auckland, co-chair, L.K. Grover, Murray Hill, NJ, J. van Leeuwen, Utrecht, S. Lloyd, Cambridge, MA, Gh. Păun, Sevilla, T. Toffoli, Boston, MA, C. Torras, Barcelona, G. Rozenberg, Leiden, co-chair, A. Salomaa, Turku.

More Information: See the conference web-page or email the OC chair M.J. Pérez Jiménez at `marper@us.es`.