

# COMPUTERS IN CARDIOLOGY



**VALENCIA, Spain**  
**September 17-20, 2006**



## CALL FOR PAPERS

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Dear Colleague,

The Mediterranean city of Valencia, Spain, has the honour to host the 33<sup>rd</sup> annual international conference of Computers in Cardiology from Sunday, September 17<sup>th</sup> through Wednesday, September 20<sup>th</sup>, 2006. It will be the first time that the conference is held in Spain. The conference will be organized by the *Center for Research and Innovation in Bioengineering (Ci<sup>2</sup>B)* of the *Polytechnic University of Valencia*, in collaboration with the *Valencian Pro-Heart Institute (INSVACOR)*, the *Generalitat Valenciana (Conselleria de Sanitat - Agència Valenciana de Salut and Conselleria d'Empresa, Universitat i Ciència)*, the *Valencia City Council (Delegation for Innovation and Information Society)* and the *Prince Felipe Research Centre*.

### The Venue

The city of Valencia, capital of tourism in Spain, will host the 2006 edition of the Computers in Cardiology conference. One of the most active and emerging cities in the country, Valencia offers plenty of attractions to the visitor, including culture, nightlife, nature, architecture and science. Valencia, the third biggest city in Spain, is located in the Mediterranean coast (it is the current venue of the 32<sup>nd</sup> America's Cup) and is only 350 km from Madrid and Barcelona.

The conference will take place in the **Conference Center** of the **Polytechnic University of Valencia**, in the main campus of the university (*Campus de Vera*). This venue is located near the seashore (15 minutes walk), and it takes only a short ride to reach the historic center of the city, the museums and other places of interest.

### The Conference

The Computers in Cardiology conference provides an international forum for scientific presentations focusing on computer applications in clinical cardiology and cardiovascular research. The conference fosters interdisciplinary discussions and collaboration between physicians, engineers, physicists, biologists, computer scientists and others engaged in research in this area.

The **main topics** of the conference are the following:

**Medical Informatics:** Telemedicine, Pervasive computing & Ambient intelligence, Intranet/Internet, Electronic Health Record, Interfaces, DICOM & communication standards, automated decision support, PACS, Databases, Systems & Instrumentation.

**Molecular Techniques in Cardiology:** Bioinformatics, Genetic causes of cardiac diseases, communication between cells, angiogenesis, tissue engineering.

**Cardiovascular Imaging:** Echocardiography, Angiography, SPECT & PET, MRI, 3D imaging, Multimodality imaging, Knowledge-based image processing, Novel methods.

**Computerized ECG:** Repolarization, Ischemia, High-resolution ECG, Arrhythmia, Diagnosis, Serial comparison, Apnea detection from the ECG.

**Electrophysiology:** Mapping, Ablation, Fibrillation / Defibrillation, Implantable devices.

**Modelling & Simulation:** Cellular models, Forward and inverse solutions.

**Cardiovascular System:** Heart Rate Variability, Baroreflex control of circulation, Methods and applications, Nonstationarity and nonlinearity.

**Cardiovascular Mechanics:** Contractile and valvular function, Arterial biomechanics, Coronary artery measurements, Instrumentation, Blood pressure.

**Sport and Cardiac Rehabilitation:** Informatic applications, Novel Technological developments, Teleassistance.

The scientific sessions of the conference include oral and poster presentations, the Rosanna Degani Young Investigators Award competition and the Computers in Cardiology/PhysioNet Challenge 2006.

Abstracts must be submitted online by May 1, 2006 at <http://www.cinc.org>. Authors with accepted abstracts for an oral or a poster presentation will submit at the time of the conference their full manuscript of 4 pages that will be published in the conference proceedings.

## SECRETARIAT ADDRESS

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## RELEVANT LINKS

Computers in Cardiology  
[www.cinc.org](http://www.cinc.org)

Computers in Cardiology 2006  
[www.cinc2006.upv.es](http://www.cinc2006.upv.es)

Physio Net Challenge  
[www.physionet.org/challenge/2006/](http://www.physionet.org/challenge/2006/)

Polytechnic University of Valencia  
[www.upv.es/menui.html](http://www.upv.es/menui.html)

University Campus  
[www.upv.es/perfiles/planos/plvali.html](http://www.upv.es/perfiles/planos/plvali.html)

Valencia official webpage  
[www.valencia.es](http://www.valencia.es)

Valencia Tourism Bureau  
[www.turisvalencia.es](http://www.turisvalencia.es)

Valencian Community  
[www.comunitatvalenciana.com](http://www.comunitatvalenciana.com)

Airport and flight information  
[www.aena.es](http://www.aena.es)

Train information  
[www.renfe.es](http://www.renfe.es)

32th America's Cup  
[www.americascup.com](http://www.americascup.com)

## Preliminary Conference Schedule

The conference will begin on the afternoon of Sunday 17<sup>th</sup> with a special symposium of invited speakers in the field of the conference. The topic of the symposium will be "Molecular Basis of Cardiac Pathologies. New Therapeutic Methods". The symposium will take place in the auditorium of the "Prince Felipe Research Center", one of the world leading research institutions in biomedicine, regenerative medicine, genomics and pharmacoproteomics. A reception will be offered at the end of the symposium.

The scientific sessions of the conference will begin on Monday morning. In the afternoon, the traditional social program will take place. This year the social program will begin with a giant paella lunch (watching how it is cooked is almost as enjoyable as tasting it!), followed by the usual activist and passivist activities. After a visit to the City of Arts and Sciences (one of the symbols of modern Valencia), the social event will conclude with a dinner served at the side of the beautiful Albufera Lake in the *Albufera National Park* very near the city.

The sessions will resume on Tuesday morning. The poster session will take place in the afternoon, and will be followed by a visit to the old town. On Wednesday, more scientific sessions will be held, and the conference will finish in the evening.

## Rosanna Degani Young Investigator Award

Computers in Cardiology has instituted an annual award to encourage young investigators and provide a living memorial to Rosanna Degani. The competition for the 2006 Rosanna Degani Young Investigator Award will be open to persons under 36 years of age and in "training status" at the submission deadline of May 1, 2006. The candidates are required to submit both an abstract and a full manuscript, written as directed in the author's kit, by May 1, 2006. All valid applications will result in a 50% reduction in the registration fee, and the four finalists get 100% paid registration plus some travel support. For more details see also <http://www.cinc.org>.

## Computers in Cardiology / PhysioNet Challenge 2006

Our popular series continues for the sixth year in a row with a new challenge: **Can the QT interval be measured by fully automated methods with an accuracy acceptable for clinical evaluations?** Participants are invited to enter the challenge by submitting an initial entry by April 24, 2006, and a final entry by September 4, 2006. Participants will present their work at Computers in Cardiology in September, and the authors with the four best scores will receive awards of USD 250 during the Wednesday plenary session, at which time a new challenge for 2007 will be announced. Visit <http://www.physionet.org/challenge/2006/> for all the details!

## Important Dates

Abstract deadline	May 1, 2006
Abstract acceptance notification	June 1, 2006
Hotel reservation deadline	July 15, 2006
Early registration deadline	August 1, 2006

We cannot guarantee hotel room availability after July 15, so speed up your reservations!

Do not forget to visit our web pages: [www.cinc2006.upv.es](http://www.cinc2006.upv.es) and [www.cinc.org](http://www.cinc.org)

