



## Park City, Utah, USA September 13-16, 2009

### Call for Papers

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The historic town of Park City, Utah, USA has the honor of hosting the 36<sup>th</sup> annual international conference of Computers in Cardiology from Sunday, September 13<sup>th</sup> through Wednesday, September 16<sup>th</sup>, 2009 at the Park City Marriott on Sidewinder Drive.

#### The Venue

Park City is home to three world class year-round resorts: Park City Mountain Resort, Deer Valley Resort and the Canyons Resort. During the summer and fall, these resorts offer a variety of activities, including hiking and biking, scenic chairlift rides, horseback rides, an alpine slide, zip line and alpine coaster ride. Experience the spirit of the 2002 Olympic Winter Games at the Utah Olympic Park, where attendees can participate in bobsled rides, watch freestyle aerialists flipping and twisting into a 750,000- gallon splash pool, or tour the 2002 Olympic Museum. The park also offers a zip line and alpine slide. Park City is a great mountain destination for sports, relaxation, as well as family enjoyment.

Park City is located only 36 miles from Salt Lake City International Airport, and within driving distance of many National Parks, including Yellowstone, Bryce, Arches, Zion, and the Grand Canyon. A trip to Computers in Cardiology 2009 is an excellent opportunity to explore these amazing areas containing countless unique geologic formations and amazing geothermal features.

#### 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.

A special focus of this year's conference is "Research and Applications of Nanotechnology in Cardiology." A special plenary session will focus on this new and exciting area.

The Scientific sessions of the conference will include:

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

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

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

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

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

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

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

**Molecular Techniques in Cardiology:** Bioinformatics, Genetic causes of cardiac diseases, Communication between cells, Angiogenesis, Tissue engineering, Cellular therapy.

**NanoTechnology in Cardiology:** Applications of nanotechnology in cardiology and cardiac imaging.

**Sport and Cardiac Rehabilitation:** Informatic applications, novel technological developments, and tele-assistance.

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

## Useful Links

Computers in Cardiology  
<http://www.cinc.org>

Computers in Cardiology 2009  
<http://www.cinc2009.org>

Park City Visitor Information  
<http://www.parkcityinfo.com/>

Utah's National Parks  
<http://www.utah.com/nationalparks/>

Yellowstone National Park  
<http://www.nps.gov/yell/>

Challenge 2009. Abstracts must be submitted online by May 1, 2009 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.

## Preliminary Conference Schedule

The conference will begin on the afternoon of Sunday, September 13<sup>th</sup> 2009 with a special symposium at the Scientific Computing and Imaging Institute at the University of Utah in Salt Lake City. The symposium will highlight the latest innovations in scientific computing for which Utah is internationally known: visualization, image processing, simulation, and medical informatics. Transportation from the hotel and conference center will be provided. A reception will be held following the symposium.

The scientific sessions of the conference will begin on Monday morning with the finalists in the Rosanna Degani Young Investigator's competition, and will continue throughout the morning. In the afternoon, the traditional social program will take place. This year's the social program will begin with an activist program at the Park City Mountain Resort and a passivist program in Historic Main Street, followed by a visit to Olympic Park highlighting local sports and the 2002 Olympic Games, and finishing with a spectacular dinner at the Deer Valley Resort. Scientific sessions will continue on Tuesday and will conclude Wednesday afternoon, and will include both oral presentation and poster sessions.

## Rosanna Degani Young Investigator Award

Beginning in 1992, Computers in Cardiology instituted an annual competition to encourage young investigators and provide a living memorial to Rosanna Degani. The competition for the 2009 Rosanna Degani Young Investigator Award is open to persons under 36 years of age and in "training status" at the submission deadline of May 1, 2009. The candidates are required to submit both an abstract and a full manuscript, written as directed in the author's kit, by that date. All valid applications will result in a 50% reduction in the registration fee, and the four finalists will receive 100% paid registration plus some travel support. For more details see <http://www.cinc.org>.

## Computers in Cardiology / PhysioNet Challenge 2009: "Predicting Acute Hypotensive Episodes"

For the tenth consecutive year, Computers in Cardiology Computers in Cardiology is offering the PhysioNet Challenge in cooperation with PhysioNet, which is part of the NIH sponsored Research Resource for Complex Physiologic Signals. This year's exciting new PhysioNet challenge is entitled "Predicting Acute Hypotensive Episodes." Abstracts describing your results must be submitted by May 1, 2009, and accepted papers will be presented at the scientific sessions in 2009. Valuable prizes will be awarded! For details, see <http://www.physionet.org/challenge/2009/>.

## Important Dates

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|---|-----------------------------|
| Abstract deadline                                     | Friday, May 1, 2009         |
| Young Investigator Competition<br>Submission Deadline | Friday, May 1, 2009         |
| PhysioNet Challenge<br>Submission Deadline            | Friday, May 1, 2009         |
| Abstract acceptance notification                      | Monday, June 15, 2009       |
| Hotel reservation deadline                            | Wednesday, July 15, 2009    |
| Early registration deadline                           | Saturday, August 1, 2009    |
| Paper Submission Deadline:                            | Saturday, September 5, 2009 |

For more information, please visit our web site at <http://cinc2009.org>, or contact us as follows:

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