



MICCAI 2004
*7th International Conference on Medical
Image Computing and Computer Assisted
Intervention*
will be held on **September 26-29**
at the sea shore congress center of
St Malo, France
(web site : <http://miccai.irisa.fr>)

Conference Committees

Executive Committee

- **Christian Barillot**
(General Chair)
Rennes, France
chair_miccai@irisa.fr
- David Haynor
(Program chair)
Seattle, WA, USA
- Pierre Hellier
(Program co-chair)
Rennes, France
- James Duncan
New Haven, CT, USA
- Mads Nielsen
Copenhagen, Denmark
- Terry Peters
London, ON, Canada

Tutorial

- Grégoire Malandain
Sophia-Antipolis,
France

Program Committee

Long Papers

- Brian Davies, UK
- Hervé Delingette, FR
- Gabor Fichtinger, USA
- Guido Gerig, USA
- Nobuhiko Hata, JP
- David Hawkes, UK
- Wiro Niessen, NL
- Alison Noble, UK
- Gábor Székely, CH
- William Wells, USA

Short Papers

- Nicholas Ayache, FR
- Yves Bizais, FR
- Richard Bucholz, USA
- Steven Pizer, USA
- Michael Vannier, USA

Scope of the Conference

MICCAI is the premier international conference with in-depth papers for medical image computing, computer-assisted intervention and medical robotics. The multidisciplinary nature of these emerging fields brings together clinicians, bioscientists, computer scientists, engineers, physicists & other researchers who are contributing to, and need to keep abreast of, advances in the methodology and applications. Tutorials will be held on September 26 and will complement and enhance the scientific program of **MICCAI-2004**. Two additional Satellite Workshops (**AMI-ARCS** and **DiDaMIC**) will be held in Rennes on September 30.

Scientific Topics *(include but are not restricted to)*

Medical Image Computing

- Data-driven segmentation
- Anatomical atlases & model-matching
- Time series analysis
- Functional image analysis
- Co-registration (alignment) & image fusion
- Fusion of structural & functional information
- Quantitative analysis
- Finite element models
- Tensor & vector field analysis

New Imaging Systems

- Magnetic resonance (MRI) applications
- CT & new x-ray tomography applications
- Nuclear medicine & cancer imaging
- Conventional & confocal microscopy
- Molecular imaging & macroscopic optical imaging
- Nano to micro imaging

Computer Assisted Interventional Systems and Robotics

- Instrument & patient localisation & tracking
- Planning and guidance of interventions, invasive & minimally invasive procedures
- Simulation & training systems
- Robotics
- Clinical evaluation of systems
- Safety issues
- Medical telepresence & telesurgery

Bioscience Applications & Computer-Aided Diagnosis

- Biomechanics, tissue modeling & deformation
- Applications to different clinical specialties
- Quantitative validation

Visualization and Feedback

- New display systems
- Enhanced, virtual or augmented reality
- Non-visual feedback

Venue

MICCAI-2004 is organized by IRISA (INRIA-CNRS-Univ. of Rennes) and will be held in the "Palais du Grand Large" at Saint-Malo in Brittany, France. Brittany is a large peninsula, bordered to the North by the English Channel and to the West and the South by the Atlantic Ocean. Hundreds of bays, inlets, and islands shelter the fishing boats that have sustained Bretons for millennia. Rennes is the capital of Brittany and, together with Lannion and Saint-Malo, is part of what is known as the French "Telecom-Valley".



Contact Details

MICCAI 2004 Conference
IRISA, Campus de Beaulieu
35042 Rennes, FRANCE

Ph: +33/0 299 847 251 / Fax: +33/0 299 847 171
Email: info_miccai@irisa.fr
Web: <http://miccai.irisa.fr>

<http://miccai.irisa.fr>