

# VIII International Seminar on Medical Information Processing and Analysis

November, 12 - 15  
San Cristóbal, Venezuela



## General Coordination

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Sara Wong, Venezuela  
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## Program committee:

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Raúl Ramos, Universidad, Colombia  
Ricardo Gutiérrez, Colombia  
Rubén Rojas, Venezuela  
Víctor Eduardo Martínez Abaunza, Colombia

## Keynote Speakers List:

Anant Madabhushi, USA  
Antoine Simon, FRANCE  
Eduardo Romero COLOMBIA  
Fabio González, COLOMBIA  
Francisco Gómez, COLOMBIA  
Guy Carrault, FRANCE  
José Luis Paredes VENEZUELA  
Juan Antonio Hernández, SPAIN  
Nick Hyne, SCOTLAND  
Norberto Malpica, SPAIN  
Sara Wong, VENEZUELA

## Call for papers - 8th International Seminar on Medical Information Processing and Analysis SIPAIM 2012

The 8th International Seminar on Medical Information Processing and Analysis (formerly International Seminar on Medical Image Processing and Analysis) will be held November 12-15, 2012, in the city of San Cristóbal (Venezuela). As in previous editions, this seminar is the appropriate space to bring together researchers (both students and professionals-mainly related to Applied Research in Medicine) to communicate their results, developments and research experience and to promote the creation of technical and scientific collaboration networks. Previous editions of this event were focused on the field of Medical Images and associated technologies and applications. Since year 2011, as a response to the increasing relevance of multi-modal sources in medical applications, we have extended the Seminar scope to research areas involving Biomedical Signals, Healthcare Informatics and Telemedicine, in addition to the original topic related to Medical Image processing, Analysis and Interpretation.

This event is addressed to researchers, professors, students and professionals in a wide range of disciplines including Engineering, Physics, Mathematics, Computer Science, Biology and Health Sciences. The seminar will include expert lectures of issues related to acquisition, digitization, visualization, processing, analysis and Interpretation of Medical Information (biomedical signals, clinical data, diagnostic images, etc.). Contributions accepted by the seminar's Evaluation Committee will be presented in oral or poster sessions. In addition, several tutorials related to the topic of the seminar will be offered to the attendants.

All accepted papers will be published in the proceedings, under an ISBN reference, on paper and on CD-ROM support. Topics submitted papers closely related to Medical Information topics will be considered for presentation.

The topic areas are expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

- 1. Brain Imaging:** - Acquisition - Multimodal Information Processing and Analysis - Visualization and Interaction - Computer-Aided Detection and Diagnosis - Quantitative Analysis and Interpretation - Multiscale / Multiresolution Representations - Registration of Multimodal Medical Data
- 2. Imaging for Cancer Therapy:** - Visualization and Interaction - Quantitative Analysis and Interpretation - Registration of Multimodal Medical Data - Segmentation - Statistical and Computational Model
- 3. e-Health:** - Telemedicine - Healthcare Information Systems (Multimodal Information Management) - Storage, Transmission and Access to Medical Information - Medical Devices, Monitoring and Calibration - Clinical Applications and Technology Integration - Medical Information Retrieval
- 4. Machine Learning/ Pattern Recognition for Biomedical Application:** - Classification - Color and Texture Analyses - Image-based Modeling and 3D Reconstruction - Object detection and Localization - Image Enhancement and Restoration - Machine Learning Technologies for Vision - Tracking and Visual Navigation
- 5. Biosignals:** Medical Signal Acquisition, Analysis and Processing - Real-Time Systems - Fuzzy Systems and Signals - Physiological Processes and Bio-signal Modeling, Non-linear dynamics - Signal Representation
- 6. Biosignal and Biimage:** - Sparse Representation - Signal/Image Generation and Reconstruction - Compressive Sensing - Segmentation and Grouping - Dictionary Learning - Signal/Image Analysis and Interpretation
- 7. Digital Patology:** - Quantitative Analysis and Interpretation - Pattern Recognition and Perception - Models for Detection and Discrimination - Acquisition - Virtual Microscopy

Important dates: **Articles Reception:** July 16, 2012 **Notification of Acceptance:** September 14, 2012  
**Articles reception (Final version):** September 30, 2012 **Event (SIPAIM) dates:** November 12-15, 2012

In this version, the event will be held and based in Universidad Nacional Experimental del Táchira UNET (San Cristóbal, Venezuela) and it's being organized and coordinated by the Biomedical engineering research group from UNET and BioIngenium research group from Universidad Nacional de Colombia.

Further information: <http://sipaim2012.unet.edu.ve>, [sipaim2012@UNET.edu.ve](mailto:sipaim2012@UNET.edu.ve).

We look forward to your attendance.

Thank you in advance for your help spreading this information among your colleagues.

