

7th International Symposium on Noninvasive Functional Source Imaging of the Brain and Heart & 7th International Conference on Bioelectromagnetism



Second Announcement and Call for Paper

Dear colleagues,

The joint 7th NFSI & ICBEM 2009 will take place from **29 to 31 May 2009** in Rome. This conference aims to provide a platform for scientific exchange of novel ideas on recent development in the field of functional biomedical source imaging. The conference site is www.ptsroma.it/nfsicbem2009 where all the information can be found.

The conference will consist of invited lectures delivered by leading scientists in the field, and organized sessions in important areas in functional source imaging and functional biomedical imaging. In the conference, through lectures and poster session, scientists are called to discuss their computational tools in order to offer a comprehensive approach to the problem of the estimation of brain and heart activity and connectivity.

The conference will offer a state-of-the-art review of the advanced neuroelectromagnetic and hemodynamic brain and heart processing methods currently applied in several leading research institutions in the world.

Selected papers from the conference will be published on international scientific journals such as Brain Topography, Computational Intelligence and Neuroscience and International Journal of Bioelectromagnetism.

The venue of the conference is unique: in the centre of the old Rome, in close contact with its 2000 years of history. In fact, the conference venue is located in the Engineering Faculty, which was at 500 meters from the Colosseo and Fori Romani and 20 meters from the San Pietro in Vincoli hosting the stunning Michelangelo's Moses statue. Rome in end of May is at the maximum of its beauty.

We hope to see you in Rome next May!!

Fabio Babiloni, Serenella Salinari Conference Chairs

Information about the Conference

Areas of interest:

Scientific contributions will be welcomed but not limited to the fields of

- o Electroencephalography, Magnetoencephalography, functional Magnetic Resonance Imaging
- o Mathematical and computer models for neurons and neural tissues
- o Theory and algorithms in forward problem for heart and brain
- o Inverse problem and source imaging
- o Mapping techniques
- o Estimation of connectivity techniques from neuroelectric and/or hemodynamic recordings
- o Brain-Computer Interface (BCI)

Contribution format:

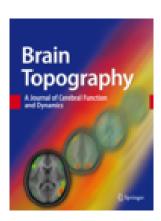
Contributions for the conference are in form of a 4 page paper according to the instruction for the Authors given on the conference WEB site at the following link:

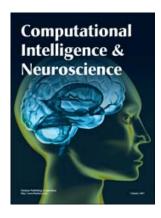
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Publication of conference papers:

Papers from the conference will be selected for the publication in three different peer-review scientific journals that will generate a special issues devoted to the conference event. In particular, after peer review process, the conference papers will be published on the following journals

Brain Topography Computational Intelligence and Neuroscience International Journal of Bioelectromagnetism







Important dates:

Abstract submission: **28 February** 2009 Notification to the Authors: **15 March** 2009

Early registration: **30 March 2009** Late registration: **20 April 2009**

Speakers:

Speakers:		
Name	Affiliation	Title of the talk
Dr. Laura Astolfi	Universita' di Roma	Estimation of time-varying cortical
	"Sapienza"	connectivity from high resolution EEG
		recordings
Prof. Katarzyna	Dept. Biomedical	Transmission of brain activity during
Blinowska	Physics, University of	cognitive task
	Warsaw	
Prof. Sergio Cerutti	Politecnico di Milano	Functional assessment of cardiovascular
		system by means of image and signal
		processing
Dr. Febo Cincotti	IRCCS S.Lucia Roma	Brain computer interfaces for communication
		and control
Dr. Rolando Grave	University Hospital of	Advanced source models for the analysis of
de Peralta	Geneve	EEG data: Theory and Applications.
Prof. Bin He	University of	Functional Imaging of Brain and Heart
	Minnesota	Activity
Prof. Andreas	RIKEN Institute Wako-	Fast and slow brain activity and connectivity
Ioannides	shi	from long MEG data
Prof. Zoltan Koles	University of Alberta	Gender differences in brain functional
		organization during verbal and spatial
		cognitive challenges
Dr. Donatella Mattia	IRCCS S.Lucia Roma	Brain Computer Interface as a possible tool
		for facilitation of the communicative abilities
		of severe brain injury patients
Prof. Christoph	University Hospital of	Electric Source Imaging in Epilepsy
Michel	Geneve	
Prof. Jose' Millan	Ecole Polytechnique	Brain Computer Interfaces
	Fédérale de Lausanne	
Prof. Paul Nunez	Tulane University	Why hearts don't love and brains don't
		pump: EEG correlates of conscious
		experience
Prof. Bernhard	University for Health	A-priori Knowledge Based Cardiac Modeling
Pfeifer	Sciences, Medical	Approaches for Imaging Patient Individual
	Informatics and	Cardiac Function
	Technology, Hall Tyrol	
Prof. Gert	Technical University of	EEG-based BCI - state of the art and future
Pfurtscheller	Graz,	prospects.
Prof. Gian Luca	Universita' di Chieti	Multimodal integration of fMRI and
Romani		Magnetoencephalographic data
Prof. Kensuke	Tokyo Metropolitan	Estimating functional connectivity in MEG
Sekihara	University	source imaging
Prof. Daming Wei	University of Aizu	A virtual reality for catheter-based EPS based
		on whole-heart model
Prof. George	University of Houston	Information Communication Networks in the
Zouridakis		Normal and Disease Human Brain.

Social program:

We will visit the Galleria Borghese, an ancient palace in the heart of Rome where stunning masterpieces of art (Caravaggio, Canova, Tiziano and others) are exposed.



From left to right, some masterpieces observable at the Galleria Borghese by; Antonello da Messina, Raffaello, Caravaggio.

A link to this important art gallery in Rome is the following: http://www.galleriaborghese.it/borghese/en/edefault.htm

In addition, social dinner will be held in a unique site, at the Casina Valadier in the heart of Villa Borghese, near to the Galleria Borghese.



http://www.casinavaladier.it/home.asp?IDLang=2&IDNav=1

Registration:

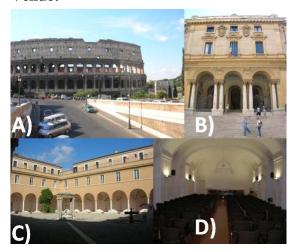
Early registration (deadline 20 March 2009): €400 Late registration (deadline 20 April 2009): €450

PhD student: €300 On-site registration: €500

Registration fees cover the attendance to all congress sessions and exhibition, conference materials, lunches and coffee breaks as well as the social dinner in an exclusive location in Rome.

Registration fee for PhD students will not cover the social dinner banquet. However, tickets for the banquet will be purchased in advance through the WEB site or at the registration desk.

Venue:

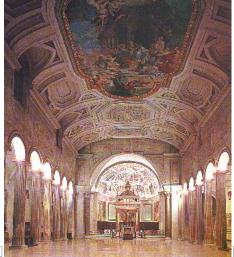


The Joint Meeting will be held from 29 to 31 May 2009 in Rome, at the Engineering Faculty of Rome, in the historical centre of Rome, at 500 mt from the Coliseum and 20 mt from the Church of San Pietro in Vincoli, where the Michelangelo's Moses is exposed.

The venue for the conference is located at the heart of old Rome city, about 500 mt from the Colosseo (A) and from the Fori Imperiali. The venue is located also at 20 mt from the ancient Roman church of San Pietro in Vincoli, where the chain of San Pietro (the first Pope in Rome about 2000 years ago) are showed, together to the masterpiece of Michelangel, Moses.

Within the Engineering Faculty (B; main entrance) there is a 300 years old cloister where the coffee break and poster session will be served (C) and there is also the hall that will be used for the conference (D).





Michelangelo's Moses (left) and the internal of the church of San Pietro in Vincoli in Rome (right) just located near to the conference venue

Conference Sponsors

- 1) International Society for Functional Source Imaging
- 2) International Society for Bioelectromagnetism
- 3) COST Action BM0601 "NEUROMATH".
- 4) Italian Ministry of Foreign Affairs





