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FOREWORD

In this and in the following two additional numbers of the International Journal of Bioelectromagnetism (IJBEM), we are pleased to offer you a selection of the best papers gathered to the NEUROMATH workshop in Rome, the 4 and 5 December 2007, held at the conference centre of the Fondazione Santa Lucia. The NEUROMATH workshop was sponsored by the European Union COST funding program (www.cost.esf.org), and technically co-sponsored by the COST Action BM0601 NEUROMATH and the International Society for Bioelectromagnetism (ISBEM). Such Workshop provided an excellent platform for the scientific exchange of novel ideas on recent development in the field of the analysis of hemodynamic, neuroelectromagnetic signals from the human brain.

With the agreement of the Editor in Chief of the IJBEM, we agreed to furnish the best contributions for these three special issues. As you will see, the research themes presented in these issues will be devoted mainly to the presentation and use of advanced methodologies for the study of brain signals. They are encompassing the application of the multimodal EEG and fMRI recordings for a better understanding of brain functions, as well as the use of advanced mathematical tools to estimate the functional connectivity between brain areas up to the application of these analytic methodologies in the brain computer interface areas.

These special issues will summarize the contributions from a large number of laboratories involved in the COST Action NEUROMATH to these mentioned research fields, providing a good view of what's going on in this field of research in Europe.

14 December , 2007

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