

Preface

This volume includes papers which were presented in the 8th International Workshop on Applied Mathematics on Scattering Theory and Biomedical Engineering held in the island of Lefkas, Greece, from 27-29 September, 2007.

The workshop is organized every two years by the University of Ioannina, the National Technical University of Athens and the University of Patras. For almost two decades, the workshop has been making positive impacts on the use of mathematics and computing in scattering and biomedical engineering by fostering collaboration among scientists both young and senior from a variety of disciplines. The vision of the organizers has certainly been realised by the more than 600 papers that have been presented at the workshop over the years.

Scattering theory is a framework for studying the scattering of waves and particles. Biomedical Engineering is the application of engineering principles to the medical field. Both fields share methodological approaches such as applied mathematics, numerical analysis, scientific computing and we try to merge all those in a single workshop. This is one of the continuing strengths of our workshop since it offers a wonderful opportunity for exchange of ideas and matching of needs between scattering and biomedical engineering. In a troubled world the workshop serves as an ideal place for scientific cooperation and development of collegiality and friendship.

We were all enthusiastic for the organization on this workshop and we are grateful to Ms Maria Pikou and Mrs Vicky Papageorgiou for the organization of such a successful meeting. We are also indebted to our Universities, The Open University of Greece and others for their financial support. We all are looking forward to the next workshop, which will be held in Patras in 2009, and we expect to see there our friends and colleagues.

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