

Preface

This book contains scientific contributions presented at the II National Conference on Sensors held in Rome in 19-21 February 2014. The conference has been organized by a partnership of the major Scientific Societies and Associations involved in the research area of sensors, the Italian Society of Chemistry (SCI), the Italian Association of Electric and Electronic Measures (GMEE), the Italian Association of Ambient Assisted Living (AITAAL), the Italian Society of Optics and Photonics (SIOF), the Italian Association of Sensors and Microsystems (AISEM) and was also under the patronage of the Italian Society of Pure and Applied Biophysics and the Italian Association of Photobiology.

The second edition of the Conference has confirmed a large participation with 59 oral presentations, 84 poster presentations and over 150 delegates. The driving idea of the First Conference, to gather scientists having different competences and with different cultural backgrounds, dealing with all the different aspects of sensors, has been demonstrated to be indeed successful again.

In this view, this book represent an invaluable and updated tool, to have an overall view on recent findings, strategies and possible new directions of the sensor research area in Italy. Different aspects of the research based on the development of new chemical, physical or biological sensors, assembling and characterization, signal treatment and data handling is reported. Electrochemical, optical and other detection strategies are applied to relevant issues in food, clinical environmental areas as well as industry oriented applications in the selection of papers reported.

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