

Preface

This book gathers scientific contributions presented at the 3rd National Conference on Sensors held in Rome, Italy from 23 to 25 February 2016. 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), the Italian Society of Pure and Applied Biophysics (SIBPA), the Italian Association of Photobiology (SIFB), the Association Italian Group of Electronics (GE) and the Association NanoItaly.

The third edition of the conference has confirmed a large participation with approximately 60 oral presentations, 80 poster presentations and over 150 delegates. The driving idea of the first conference, to gather scientists having different expertise and with different cultural background, dealing with all the different aspects of sensors, has proved to be indeed successful again.

In this perspective, the book represents an invaluable and up-to-the-minute tool, providing an essential overview of recent findings, strategies and new directions in the area of sensor research. Further, it addresses various aspects based on the development of new chemical, physical or biological sensors, assembling and characterization, signal treatment and data handling. Lastly, the book applies electrochemical, optical and other detection strategies to relevant issues in the food and clinical environmental areas, as well as industry-oriented applications.

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