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Volume 539

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Sensors

Proceedings of the Fourth National
Conference on Sensors,
February 21–23, 2018, Catania, Italy

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ISSN 1876-1100

ISSN 1876-1119 (electronic)

Lecture Notes in Electrical Engineering

ISBN 978-3-030-04323-0

ISBN 978-3-030-04324-7 (eBook)

<https://doi.org/10.1007/978-3-030-04324-7>

Library of Congress Control Number: 2018961731

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This Springer imprint is published by the registered company Springer Nature Switzerland AG
The registered company address is: Gewerbestrasse 11, 6330 Cham, Switzerland

Preface

This book gathers scientific contributions presented at the 4th National Conference on Sensors held in Catania, Italy from 21 to 23 February 2018. 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 fourth edition of the conference has confirmed a large participation with approximately 70 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 backgrounds, 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 the relevant issues in the food and clinical environmental areas, as well as industry-oriented applications.

Catania, Italy
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