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This book contains a selection of papers presented at the 11th AISEM (Associazione Italiana Sensori e Microsistemi) National Conference on Sensors and Microsystems. The conference exhibited updated results from both the theoretical and applied research in the field of sensors and microsystems. In a interdisciplinary approach, many aspects of the disciplines related to sensors and microsystems are covered, ranging from physics, chemistry, materials science, biology and applications issues.

Contents:

A Study of Mass Effect in a Cavitand Supramolecular Sensor (E Sgreccia et al.)

Hydrocarbon Sensing Device Based on Binary Metal Oxides (S Kandasamy et al.)

An Optical Probe for RF Electric Field (L Ciccarelli & M Medugno)

Detection of Labelled DNA Based on Amorphous Silicon Devices (D Caputo et al.)

Lab-on-chip Integrated Genetic Analysis (R Aina et al.)

Buried Microchannels by Electrochemical Etching of Silicon (G Barillaro & A Nannini)

Multisensor Layout for Robots in Hostile Environments (C Moriconi & M Santoro)

A Neural Spectral Classifier for Optical Sensors (M Medugno)

and other papers