
Editorial

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Biographical notes: Marco Mugnaini received his Laurea degree in Electronic Engineering and his PhD in Reliability, Availability, and Logistics from the University of Florence, Florence, Italy, in 1999 and 2003, respectively. Since 2003, he has been a Product Safety Engineer for the General Electric Oil and Gas business, where he got his green belt certification. Since 2005, he has been an Assistant Professor with the Department of Information Engineering and Mathematics, University of Siena, Siena, Italy. He has been a faculty at the Higher Colleges of Technology in Abu Dhabi. His current interests concern the system reliability and availability and the development of automatic diagnosis systems.

Marcantonio Catelani received his degree in Electronic Engineering from the University of Florence, Florence, Italy. Since 1984, he has been with the Department of Electronic Engineering, now Electronic Telecommunication Department, University of Florence, Florence, Italy, where he is an Associate Professor of Reliability and Quality Control. His current interests are in reliability test and analysis for electronic systems and devices, fault diagnosis, quality control, and instrumentation and measurement, where his publications are focused.

In recent years, measurement technology has moved ahead with respect to industrial applications. Theoretical studies have found actual application in modern companies and in general in everyday life. This special issue is centred on industrial measures and measurement techniques. This volume in particular, is thought to supply to both the scientific community and to research engineers some basis on new discoveries and corresponding applications. Innovation often is carried on without any contact between these two worlds: the academic and the industrial one. To overcome this barrier, the editor-in-chief and the two guest editors arranged to get a limited set of truly specific manuscripts which could allow focusing the attention on some particular aspects of both sensor development as well as applied measurement techniques.

This volume in particular could result of specific use for all the researchers dealing with uncertainty and measurement issues in noisy environments. The four papers included in this issue deal with industrial problems connected to control, sensor development, problems in performing measurement in harsh environments. They have been selected taking into consideration their specific peculiarity and their characteristics of cross-subject interest.