

1. Record Nr.	UNINA9910451992403321
Titolo	Advanced mathematical & computational tools in metrology VII [[electronic resource] /] / editors, P. Ciarlini ... [et al.]
Pubbl/distr/stampa	New Jersey, : World Scientific, c2006
ISBN	1-281-91932-2 9786611919320 981-277-418-1
Descrizione fisica	1 online resource (384 p.)
Collana	Series on advances in mathematics for applied sciences ; ; v. 72
Altri autori (Persone)	CiarliniP
Disciplina	530.8
Soggetti	Measurement Physical measurements Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents ; Foreword ; Full Papers ; Modeling Measurement Processes in Complex Systems with Partial Differential Equations: From Heat Conduction to the Heart ; Mereotopological Approach for Measurement Software ; Data Evaluation of Key Comparisons Involving Several Artefacts Box-Cox Transformations and Robust Control Charts in SPC Multisensor Data Fusion and Its Application to Decision Making ; Generic System Design for Measurement Databases - Applied to Calibrations in Vacuum Metrology Bio-Signals and a Template System Evaluation of Repeated Measurements from the Viewpoints of Conventional and Bayesian Statistics Detection of Outliers in Interlaboratory Testing ; On Appropriate Methods for the Validation of Metrological Software ; Data Analysis - A Dialogue with the Data ; Contributed Papers A Virtual Instrument to Evaluate the Uncertainty of Measurement in the Calibration of Sound Calibrators Intercomparison Reference Functions and Data Correlation Structure ; Validation of Soft Sensors in Monitoring Ambient Parameters

Evaluation of Standard Uncertainties in Nested Structures
Measurement System Analysis and Statistical Process Control
; A Bayesian Analysis for the Uncertainty Evaluation of a Multivariate
Non Linear Measurement Model
; Method Comparison Studies between Different Standardization
Networks
Convolution and Uncertainty Evaluation

Sommario/riassunto

This volume collects the refereed contributions based on the presentations made at the Seventh Workshop on Advanced Mathematical and Computational Tools in Metrology, a forum for metrologists, mathematicians and software engineers that will encourage a more effective synthesis of skills, capabilities and resources. The volume contains articles by world renowned metrologists and mathematicians involved in measurement science and, together with the six previous volumes in this series, constitutes an authoritative source of the mathematical, statistical and software tools necessary in modern met
