

Foreword

This volume collects the revised contributions at the fifth workshop on the theme of advanced mathematical and computational tools in metrology, held at the Portuguese Institute for Quality, Caparica, Portugal, in May 2000. The workshop aims were

- To present and promote reliable and effective mathematical and computational tools in metrology.
- To understand better the modelling, statistical and computational requirements in metrology.
- To provide a forum for metrologists, mathematicians and software engineers that will encourage a more effective synthesis of skills, capabilities and resources.
- To promote collaboration in the context of EU Programmes, EUROMET and EA Projects.
- To support young researchers in metrology and related fields.
- To address industrial requirements.

The first three days involved, invited presentations, submitted presentations and round table discussion on comparisons. On the last day, two parallel Special Interest Groups meetings held under the subjects: Metrology Software and Data Fusion.

The themes in this volume reflect the importance of the mathematical, statistical and numerical tools and techniques in metrology and also keeping the actual challenge promoted by the Meter Convention, to access a mutual recognition for the measurement standards.

Caparica, October 2000

The editors