

Project EMUE Towards a comprehensive set of examples of measurement uncertainty evaluation to support guides and standards

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EMPIR project EMUE: Examples of Measurement Uncertainty Evaluation

Promote the

harmonized evaluation of measurement uncertainty according to internationally recognized standards and guides across broad disciplines of measurement

- Accomplish by providing new or improved examples to the Joint Committee for Guides in Metrology (JCGM), international standards committees, and other bodies and end-users
- Improve the use by these bodies of accepted uncertainty principles
- Many examples in a form that can readily be adapted to other areas: "Learn by example"



The "GUM" aka JCGM 100:



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Work Package 1 Examples relating to metrological activities adaptable as template solutions WP Leader: UKAS

Task 1.1 Calibration, testing and comparison

Task 1.2 Conformity to regulation or specification

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Benefits

Benefit to all above areas from carefully elaborated examples that are

- Practical and specific to these domains
- As far as possible can be adapted to end-users' data and knowledge

ISO/IEC 17025, General requirements for the competence of testing and calibration laboratories, states that it should be ensured that

"the form of reporting of the result does not give a wrong impression of the uncertainty"

Thus, practitioners should pay an appropriate level of attention to evaluating and reporting uncertainty

Since many end-users "learn by example", a wide-ranging set of practical examples, ranging in complexity from the simple to the sophisticated, would be highly beneficial and is being provided by EMUE

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