

An Excel Interface for Functions in the **metRology** Package

William F. Guthrie^{1,*}, Hung-kung Liu¹

1. Statistical Engineering Division, National Institute of Standards and Technology
* Contact author: will.guthrie@nist.gov

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This talk describes the development and use of an Excel interface developed using *RExcel* for the functions in the new **metRology** package for statistical metrology. The interface uses a combination of *Visual Basic* macros and *RExcel* worksheet and macro functions to allow the user to access templates for different statistical analyses that are common in metrological work. This interface makes it easy for scientists, engineers, and metrologists who need to carry out statistical analyses to harness the power of *R* without the high overhead costs associated with learning a new software package. The software will be illustrated using examples from NIST work. Lessons learned when the software was used during hands-on workshops for uncertainty analysis in Argentina and Brazil will also be discussed.

References

Thomas Baier and Erich Neuwirth (2007) Excel :: COM :: R, *Computational Statistics* 22/1, pp. 91-108.