

**NIST Special Publication 1275v1**

**NIST Conference Papers**  
**Fiscal Year 2018**  
**Volume 1: Engineering Laboratory**

Compiled and edited by:  
Information Services Office

This publication is available free of charge from:  
<https://doi.org/10.6028/NIST.SP.1275v1>

**NIST**  
**National Institute of**  
**Standards and Technology**  
U.S. Department of Commerce

**NIST Special Publication 1275v1**

**NIST Conference Papers  
Fiscal Year 2018  
Volume 1: Engineering Laboratory**

Compiled and edited by:  
Resources, Access, and Data Team  
*Information Services Office*

This publication is available free of charge from:  
<https://doi.org/10.6028/NIST.SP.1275v1>

January 2022



U.S. Department of Commerce  
*Gina M. Raimondo, Secretary*

National Institute of Standards and Technology  
*James K. Olthoff, Performing the Non-Exclusive Functions and Duties of the Under Secretary of Commerce  
for Standards and Technology & Director, National Institute of Standards and Technology*

Certain commercial entities, equipment, or materials may be identified in this document in order to describe an experimental procedure or concept adequately. Such identification is not intended to imply recommendation or endorsement by the National Institute of Standards and Technology, nor is it intended to imply that the entities, materials, or equipment are necessarily the best available for the purpose.

**National Institute of Standards and Technology Special Publication 1275v1**  
**Natl. Inst. Stand. Technol. Spec. Publ. 1275v1, 691 pages (January 2022)**  
**CODEN: NSPUE2**

**This publication is available free of charge from:**  
**<https://doi.org/10.6028/NIST.SP.1275v1>**

## **Foreword**

NIST is committed to the idea that results of federally funded research are a valuable national resource and a strategic asset. To the extent feasible and consistent with law, agency mission, resource constraints, and U.S. national, homeland, and economic security, NIST will promote the deposit of scientific data arising from unclassified research and programs, funded wholly or in part by NIST, except for Standard Reference Data, free of charge in publicly accessible databases. Subject to the same conditions and constraints listed above, NIST also intends to make freely available to the public, in publicly accessible repositories, all peer-reviewed scholarly publications arising from unclassified research and programs funded wholly or in part by NIST.

This Special Publication represents the work of Engineering Laboratory researchers at professional conferences, as reported in Fiscal Year 2018.

More information on public access to NIST research is available at <https://www.nist.gov/open>.

## **Key words**

NIST conference papers; NIST research; public access to NIST research.

Access the full text at <https://doi.org/10.6028/NIST.SP.1275v1>