



**Elham Tabassi (Fed)**  
**Chief of Staff, Information Technology Laboratory**

Elham Tabassi is the Chief of Staff in the Information Technology Laboratory (ITL) at the National Institute of Standards and Technology (NIST). She leads NIST Trustworthy and Responsible AI program that aims to cultivate trust in the design, development, and use of AI technologies by improving measurement science, standards, and related tools in ways that enhance economic security and improve quality of life. She has been working on various machine learning and computer vision research projects with applications in biometrics evaluation and standards since she joined NIST in 1999. She is the principal architect of NIST Fingerprint Image Quality (NFIQ) which is now an international standard for measuring fingerprint image

quality and has been deployed in many large scale biometric applications worldwide. She is a member of the National AI Resource Research Task Force, a senior member of IEEE, and a fellow of Washington Academy of Sciences.

**PUBLICATIONS**

**[NIST Fingerprint Image Quality 2](#)**

**JULY 13, 2021**

**AUTHOR(S)**

**ELHAM TABASSI, MARTIN OLSEN, OLIVER BAUSINGER, CHRISTOPH BUSCH, ANDREW FIGLARZ, GREGORY FIUMARA, OLAF HENNIGER, JOHANNES MERKLE, TIMO RUHLAND, CHRISTOPHER SCHIEL, MICHAEL SCHWAIGER**

NIST Fingerprint Image Quality (NFIQ 2) is open source software that links image quality of optical and ink 500 pixel per inch fingerprints to operational

**[NIST Special Database 302: Nail to Nail Fingerprint Challenge](#)**

**DECEMBER 11, 2019**

**AUTHOR(S)**

**GREGORY P. FIUMARA, PATRICIA A. FLANAGAN, JOHN D. GRANTHAM, KENNETH KO, KAREN MARSHALL, MATTHEW SCHWARZ, ELHAM TABASSI, BRYAN WOODGATE, CHRISTOPHER BOEHNEN**

In September 2017, the Intelligence Advanced Research Projects Activity (IARPA) held a data collection as part of its Nail to Nail (N2N) Fingerprint Challenge

**[Nail to Nail Fingerprint Challenge: Enrollment Set Size Variability](#)**

**JUNE 24, 2019**

**AUTHOR(S)**

**GREGORY P. FIUMARA, KENNETH KO, ELHAM TABASSI, PATRICIA A. FLANAGAN, JOHN D. GRANTHAM, KAREN MARSHALL, MATTHEW SCHWARZ, BRYAN WOODGATE**

In September 2017, the Intelligence Advanced Research Projects Activity held a fingerprint data collection as part of the Nail to Nail Fingerprint Challenge

**[NIST Special Database 301: Nail to Nail Fingerprint Challenge Dry Run](#)**

**JULY 11, 2018**

**AUTHOR(S)**

**GREGORY P. FIUMARA, PATRICIA A. FLANAGAN, MATTHEW SCHWARZ, ELHAM TABASSI, CHRISTOPHER BOEHNEN**

In April 2017, the Intelligence Advanced Research Projects Activity (IARPA) held a dry run for the data collection portion of its Nail to Nail (N2N) Fingerprint

**[Nail to Nail Fingerprint Challenge: Prize Analysis](#)**

**MAY 3, 2018**

**AUTHOR(S)**

**GREGORY P. FIUMARA, ELHAM TABASSI, PATRICIA A. FLANAGAN, JOHN D. GRANTHAM, KENNETH KO, KAREN MARSHALL, MATTHEW SCHWARZ, BRYAN WOODGATE, CHRISTOPHER BOEHNEN**

In September 2017, the Intelligence Advanced Research Projects Activity held a fingerprint data collection as part of the Nail to Nail Fingerprint Challenge