



Hajera KOUSER
Telops
100-2600 Avenue St.-Jean-Baptiste
Québec (QC) G2E 6J5
Canada
e-mail: hajera.kouser@telops.com

QIRT-2024-085

- ABSTRACT
- PRESENTATION
- PAPER

Hajera Kouser is a business development manager for Southern & Eastern Europe, Middle East, Africa & India at the Telops, a company headquartered in Québec, Canada.

-
- Joseph CARROCK**
Telops, Québec (QC), Canada
 - Fabien DUPONT**
Telops, Québec (QC), Canada
 - Dr. Antoine DUMONT**
Telops, Québec (QC), Canada
 - Jean-Philippe GAGNON**
Telops, Québec (QC), Canada
 - Benjamin SAUTE**
Telops, Québec (QC), Canada

IMPROVING THE NETD OF HIGH-SPEED INFRARED CAMERAS THROUGH TEMPORAL AVERAGING

With an ultimate goal of characterizing potential methods to improve Noise Equivalent Temperature Difference (NETD) within cooled infrared imaging systems, this report describes the results of attempts to minimize temporal noise contributions through averaging in post processing. Initial results indicate that with sufficiently static scenes and high framer-

ates, temporal resolution can be traded for improved NETD performance without requiring adjustments to exposure time or pixel well filling levels. We report on our continued efforts to characterize this methodology with the hope that it may be widely beneficial to varied applications throughout the infrared thermography community.