

**2020 IEEE RADAR CONFERENCE, FLORENCE, ITALY
STUDENT PAPER CONTEST
SUBMISSION FORM**

The purpose of the Student Paper Competition is to recognize outstanding technical contributions from individual students.

Student Information

Student Name: Josiah W. Smith

Student Email: jws160130@utdallas.edu

University: The University of Texas at Dallas

Degree Program/
Expected Grad. Date: May 2022

Advisor Name: Murat Torlak

Advisor Email: torlak@utdallas.edu

Student Contribution (briefly describe what the student contributed to the work):

Conducted thorough literature review. Developed algorithm and system implementation. Designed and built scanning prototype while in quarantine. Performed data collection, sensor calibration, preprocessing, and image reconstruction. Coded custom MATLAB simulation package for generating echo data from scanning scenarios and reconstructing high-resolution three-dimensional holographic images. Completed majority of writing process, aside from minor edits and contributions by other authors.

Contest Criteria

Please verify (by checking the box) that this submission meets the eligibility criteria:

- ☒ I (the student) am the first author, have written the paper, and have done the substantial majority of the work
- ☒ The paper contains a mature, significant contribution
- ☒ The submission consists of a clear, polished manuscript of no more than 6 pages
- ☒ If chosen as a finalist, I (the student) will register for the conference and present my work during the conference to a panel of judges. This may be in-person or remotely. The presentation will be in the same format as the lecture session presentations.