

# **Influence of fixed elevation angles in high resolution parameter estimation using a linear antenna array**

**Author(s) - Institution(s):**

Sergii Skoblikov, TU-Ilmenau  
Reiner S. Thomae, TU-Ilmenau

**Corresponding author email:** [sergii.skoblikov@tu-ilmenau.de](mailto:sergii.skoblikov@tu-ilmenau.de)

**Corresponding WG group:** TWGU, WG1

**Abstract:**

This article shows the effects that appear when a DoA estimation is conducted on a data gathered with a Uniform Linear Array. The effects of Azimuth Bias and Direction Clipping are derived with the help of analytic models and confirmed by the estimations based on field data. The mentioned effects introduce an error into the estimation results and therefore should be avoided or accounted for.