

# DIGITAL TRANSFORMERS

**TASK 18:** ALGORITHM FOR EFFICIENT PROCESSING  
OF SATELLITE IMAGES OF THE RUSSIAN ORBITAL  
CONSTELLATION



ЛИДЕРЫ  
ЦИФРОВОЙ  
ТРАНСФОРМАЦИИ



**sitronics**<sup>IT</sup>  
GROUP

## REGISTERED PARTICIPANTS



# PROCESS STEPS

**Loading and Normalizing Images:** Load the TIFF images and normalize them for processing.

**Feature Extraction:** Extract features from the images for matching.

**Matching Features:** Match features between the scene images and the sentinel images.

**Estimating Transformation:** Estimate the transformation matrix to geo-reference the scene images.

**Warping Images:** Warp the scene images based on the estimated transformation.

**Dead Pixel Correction:** Detect and correct dead pixels in the images.

**Output Generation:** Generate the required output in specified formats.