

Bundle adjustment with feature orientation and scale (BAFOS) (Technion)

code: COM-1753

In many navigation and augmented reality platforms, a camera (or robot) operating in unfamiliar environments is required to accurately estimate the layout of the surroundings. Due to estimation errors, the accuracy of the current methods is compromised. This solution aims to improve estimation accuracy by merging two existing methods. It uses image feature scale and orientation information to formulate constraints which are incorporated into bundle adjustment optimization, resulting in a more accurate depiction of the surroundings.

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