

## A COOPERATIVE AUGMENTED REALITY (AR) FRAMEWORK BASED ON DISTRIBUTIVE VISUAL SLAM

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## ABSTRACT

Distributive Simultaneous Localizations and Mapping (SLAM) helps for multiple agents for exploring and building a global map predicting their locations. The challenge is difficult to identify local map overlaps these agents, especially when their initial relative positions are unknown. So, to address this problem, a collaborative (AR) frame-work with liberally moving agents was used without know-how of their initial comparative positions. Each agent in the framework used a camera only as the input device for its SLAM route.

**KEYWORDS:** Augmented Reality; Framework; Nodes; Robotics; Distributive SLAM

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