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Object instance pose estimation and camera localization from RGBD images has been very successful.

Goal: To achieve visually convincing results using RGB only.

State-of-the-Art using RGBD (previous work [1],[2]):

**Contributions:**
1. New state-of-the-art for 6D pose estimation from RGBD images
2. Robust auto-context framework for multi-dimensional context
3. Scalable RANSAC for multiple objects
4. Refinement using uncertainty
5. High flexibility (objects / scenes, RGB / RGB-D)

**Experimental Results**

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