

# Review 1

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**Time:** Nov 21, 01:35 UTC

## Review

### 1. General Comment:

The paper analyzes how to adapt vision-language-action (VLA) models to new robotic environments using parameter-efficient fine-tuning (PEFT) methods like LoRA, OFT, and SVF. The evaluation is conducted on the LIBERO benchmark, considering their parameter efficiency and performance. This study is relevant, original, and well aligned with current developments in robotics.

### 2. Strengths:

The structure of the document is clear and easy to follow. The methods section is well developed, and the “Related Work” section shows a solid understanding of the state of the art. The results table is especially useful, as it allows readers to visualize and directly compare the performance of each method.

### 3. Points for Improvement:

It would be helpful to include a short explanation before the results table to contextualize the hypotheses or expected results. I also recommend reviewing some formatting details, such as spacing issues between references and words, or checking the table’s placement to ensure it does not exceed the page margins. Additionally, expressions like “general reasoning capabilities” or “strong performance across” could be specified further. The work might also benefit from adding a brief keywords section after the summary to improve accessibility.

### 4. Quality of Writing:

The writing is coherent, stays formal and is well organized. The abstract is concise, and the introduction presents the problem and study objectives appropriately. The methods section is easy to understand, and the references used are relevant. The writing quality is very good.

## Reviewer’s confidence

2: Partly, I may be missing some concepts or elements of the state-of-the art, but I got the main idea

## Usage of LLM

1: No, not at all

## Confidential remarks for the program committee

*(None provided)*