

# A first example

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# Outline

Introduction

Problem

Proposed solution

Big Picture

Related work

Main contribution

Methods

Pipeline

Data Structs

Results

Conclusion

# Introduction

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# What is SLAM ?

SLAM stands for ...

# Problem

- Computational Heavyness
- High Theoretical Complexity
- How to pratically do it ?

# Proposed solution

## ProSlam:

- light
- simple
- clear

# Big Picture

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- LSD SLAM
- etc



# State of the art

- ORB SLAM 2
- etc

# Main contribution

## ProSlam:

- open source cpp implementation
- easy to use for beginners...
- computationally light
- good performances

# Methods

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location based graph ... **Loop:**

- Relocation
- Adjustment

## Core Modules:

- Triangulation
- Incremental Motion Estimation
- Map Management
- Relocation

# Triangulation

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# Triangulation : Intuition

img of the fact that correspondences are expected only on one side of the other image and they can also be sorted with euclidean distance metric

# Incremental Motion Estimation

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Three main steps :

- Correspondence recovery
- Landmark optimization
- Local map generation

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- KeyPoint
- FramePoint
- Frame
- LandMark
- LocalMap
- GlobalMap

## Results

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... images of plots and performances .. benchmarks

# Conclusion

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# Conclusion

**In the end:**

- summarizing implications of the results
- connect results with provided claims
- take home message