

# EKFMONOSLAM FOR THE INTELLITABLE ROBOT

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## 1. INTRODUCTION

The EKFmonoSLAM uses a EKF SLAM algorithm originally designed by Joan Sola [1].

## 2. QUICK SET-UP

This section outlines the steps that need to be taken to set up the SLAM algorithm software in MATLAB. This set-up assumes you have MATLAB already installed.

The software for running the SLAM algorithm is publicly available online<sup>1</sup>.

## 3. PROCESSING SPEED CONSIDERATIONS

## 4. TRANSFER TO THE INTELLITABLE

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<sup>1</sup><https://github.com/HJackson3/intelliTable-SLAM>

## REFERENCES

- [1] Joan Sola, Teresa Vidal-Calleja, Javier Civera, and José María Martínez Montiel. Impact of landmark parametrization on monocular ekf-slam with points and lines. *International journal of computer vision*, 97(3):339–368, 2012.