User Manual

# Background

CoppeliaSim is a powerful software to simulate the robotics’ track, activates and other behaviours. This user manual instructs the use method of all models in this github. This document aims to introduce the each function of different model and explain the each matlab code to control them.

# Introduction

This project achieve a system with robotic arm, rover and UAV to searching and delivering. In this project, the CoppeliaSim vision is Edu V4.0.0 rev 4, the Crazyflie vision is 2.0.

CoppeliaSim have a function as remote API which could connect Matlab, java, C/C++, Python to control the model in the CoppeliaSim. CppeliaSim has two types of remote API, they are B0-based remote API and legacy remote API. The legacy remote API is the main method to connect CoppeliaSim model with Matlab commands.

Build several handles to each components need be controlled.

Run the code in the Matlab

Connect with Matlab

Run CoppeliaSim main script