

FFKM Installation Guide for macOS

Introduction

This guide provides step-by-step instructions to install the FFKM software on macOS. The software must be installed in the Applications folder as /Applications/FFKM.

System Requirements

- macOS (latest version recommended)
- Scilab (latest version recommended)

Installation Steps

Extract and Install

1. Locate the downloaded ZIP file.
2. Double-click the ZIP file to extract its contents.
3. Rename the extracted folder to FFKM (if necessary).
4. Open Finder and navigate to the extracted FFKM folder.
5. Drag and drop the FFKM folder into the Applications folder.

Running FFKM

To run the software:

1. Open Scilab.
2. Open the Scilab Terminal.
3. Navigate to the FFKM folder:

```
cd /Applications/FFKM
```

4. Click on the file exec.sce to start the software.

Folder Structure

- The folder DATASET contains all datasets used in the paper.
- The folder Results contains the clustering results.

Support

Any doubts? Send an e-mail to: andre.klen@ifmg.edu.br and read the following articles:

Klen, A. M., Bonduà, S., Kasmaeeyazdi, S., Lana, M. S., Menezes, D. A., Carvalho, P. G. (2024). A fuzzy K-Means algorithm based on Fisher distribution for the identification of rock discontinuity sets. *International Journal of Rock Mechanics & Mining Sciences*. ISSN 1365-1609. DOI: <https://doi.org/10.1016/j.ijrmms.2024.105879>.

Klen, A. M., Bonduà, S., Kasmaeeyazdi, S., Menezes, D. A. (2025). FFKM: A software for automatic discontinuity set identification and stereographic projection analysis.