SYSDYNET Toolbox for Identification of Dynamic Networks
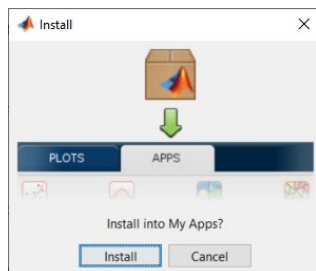
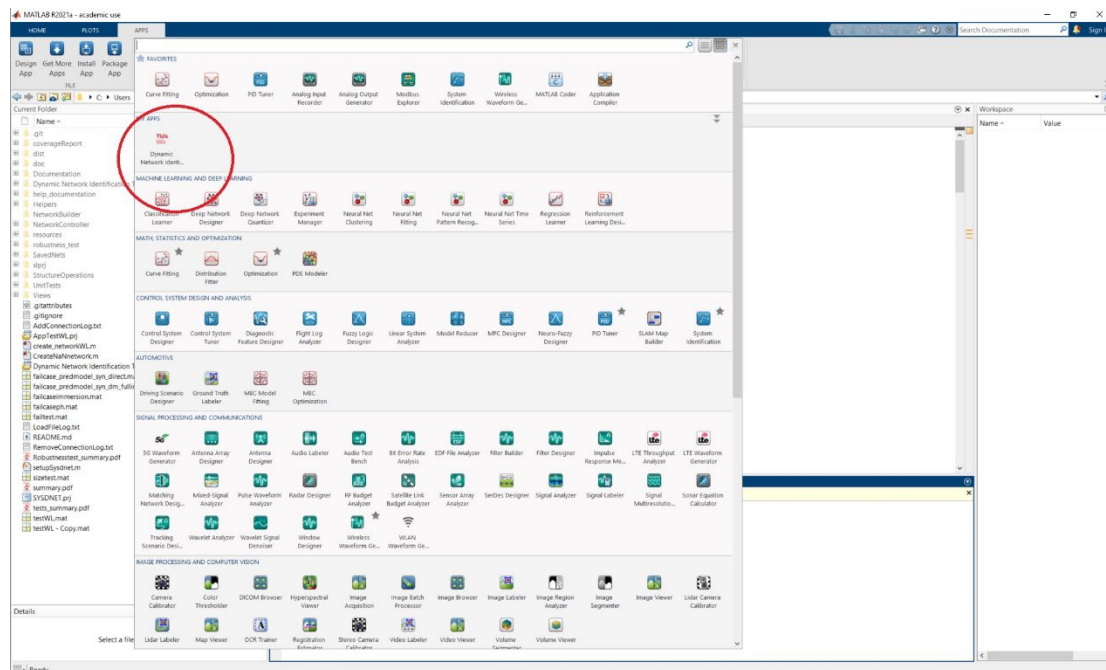Quick Start Guide

Prerequisites

- Take note of the license file.
- MATLAB 2021a or higher (tested on MATLAB R2021a & R2023b) with
  - Control Systems Toolbox
- (Optional) To be able to run identification algorithms (nwidfullSLS, nwidPEM and nwidsingleMultiStep) at the command line:
  - System Identification Toolbox
  - CVX (Download CVX | CVX Research, Inc.), only required for nwidfullSLS

Installation

- Unzip the file "Dynamic Network Identification Toolbox 0_3_0.zip".
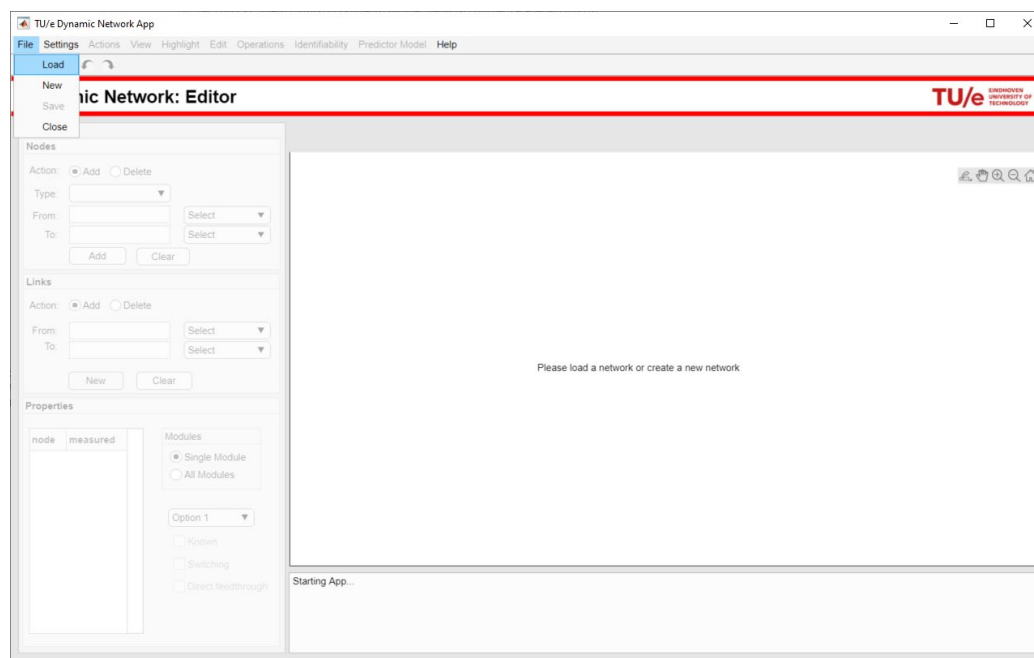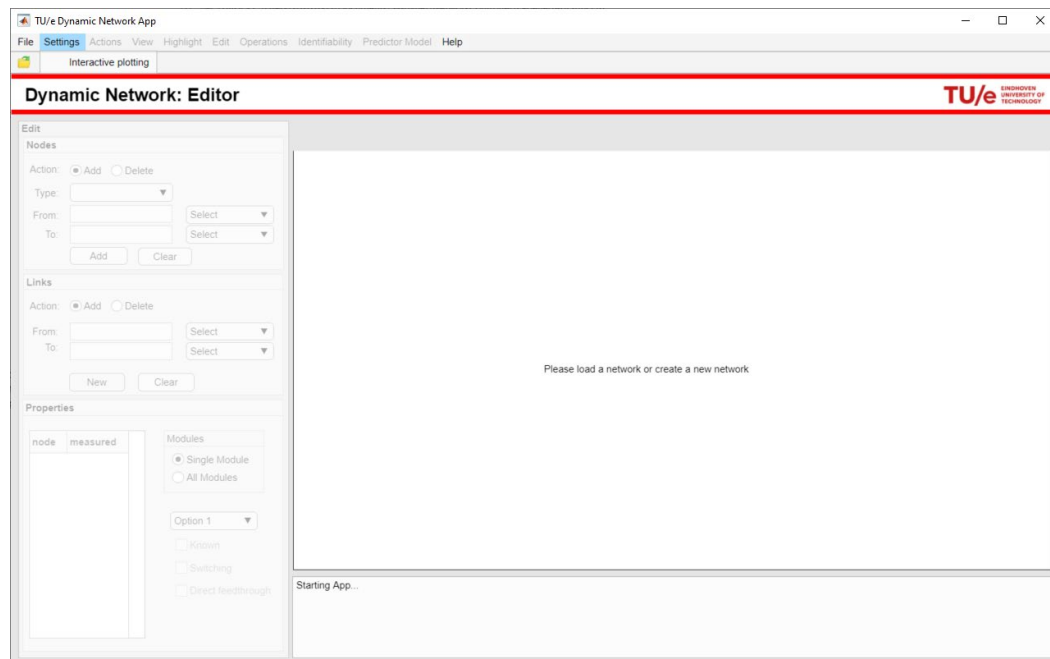- Double click the "Dynamic Network Identification Toolbox.mlappinstall".

- There is an icon for the Toolbox in the App-tab.

Run the Toolbox

- Click on the Toolbox icon in the App-tab
- Load a network. There are three examples in the "Examples" directory in the zip-file.

- Use the "Help" tab in the App for further information.
- Make sure the App is open in order to use the functions and classes listed in the reference (MATLAB functions for structural operations | SYSDYNET (tue.nl)) at the command line. Use help <command> to get detailed documentation on these functions/classes.