Matave Identification ToolBox

A State Space Approach

Version 8.5

State Space Realization Algorithms

Function name	Description	Status	Model
eradc	Eigensystem Realization Algorithm Data Correlation	Done	MIMO
okid	Observer Kalman Filter Identification	Done	MIMO
ocid	Observer Controller Identification	Done	MIMO
rls	Recursive Least Square	Done	SISO

Nonlinear System Algorithms

Function name	Description	Status	Model
sindy	Sparse Identification of Nonlinear Dynamics	Done	MIMO

Analysis and filtering

Function name	Description	Status	Data
spa	Plot bode spectral analysis plot using Fast Fourier Transform	Done	Requried
filtfilt2	Zero phase filtering with low pass filter		Requried
idbode	Plot bode diagram from frequency data		Requried
rpca	Filter data using Robust Principal Component Analysis	Done	Requried
ica	Separate signals from each other so they are independent	Done	Requried

Miscellaneous

Function name	Description	Status	Internet connection
updatemataveid	Update the Mataveid library	Done	Requried