

Matave Identification ToolBox

A State Space Approach

Version 7.0

State Space Realization Algorithms

<i>Function name</i>	<i>Description</i>	<i>Status</i>	<i>Model</i>
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

<i>Function name</i>	<i>Description</i>	<i>Status</i>	<i>Model</i>
sindy	Sparse Identification of Nonlinear Dynamics	Done	MIMO

Analysis and filtering

<i>Function name</i>	<i>Description</i>	<i>Status</i>	<i>Data</i>
spa	Plot bode spectral analysis plot using Fast Fourier Transform	Done	Required
filtfilt2	Zero phase filtering with low pass filter	Done	Required
idbode	Plot bode diagram from frequency data	Done	Required

Miscellaneous

<i>Function name</i>	<i>Description</i>	<i>Status</i>	<i>Internet connection</i>
updatemataveid	Update the Mataveid library	Done	Required