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README - Sensor Model - Preprocessing

Guidance, Navigation and Controls Subsystem

se_PP_1_Load_Constants.m

Code author: Neilabh Banzal

Created on: 14/05/2020

Last modified: 15/05/2020

Reviwed by: NOT YET REVIEWED - Aruja Khanna, KT Prajwal Pratiksh

Description:

This script loads all inputs into the workspace from `/Sensor_Model/Inputs/` and stores them into `/Sensor_Model/Inputs/se_inputs.mat` for future reference.

Input files/ Files Accessed:

1. **se_inputs.xlsx** - Sensor Model General Inputs
2. **se_op_inputs.xlsx** - Optics Inputs for Sensor Model
3. **se_ig_inputs.xlsx** - Image Generation Inputs for Sensor Model
4. **se_er_inputs.xlsx** - Error Inputs for Sensor Model
5. **se_boresight_inputs.xlsx** - Boresight Inputs for Sensor Model

Output:

All input variables are stored in structures, and save to file at `/Sensor_Model/Inputs/se_inputs.mat`

se_PP_2_Catalogue.m

Code author: Neilabh Banzal

Created on: 12/05/2020

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Reviwed by: NOT YET REVIEWED - Aruja Khanna, KT Prajwal Pratiksh

Description:

This script loads the `SSP_Star_Catalogue.csv` and preprocesses it for Sensor Model.

Input files/ Files Accessed:

1. **SSP_Star_Catalogue.csv** - Sensor Model General Inputs

Output:

The Star Catalogue Preprocessed for Sensor Model is stored at
`/Sensor_Model/Preprocessed_Catalogue/se_SKY2000.mat` and
`/Sensor_Model/Preprocessed_Catalogue/se_SKY2000.csv`