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| File name | Description |
| SimulatorView.py | This is the class you run, which calls CropElectricityYeildSimulator1.py which calls CropElectricityYeildSimulatorDetail.py, by passing parameters. |
| CropElectricityYeildSimulator1.py | This is the class calling CropElectricityYeildSimulatorDetail.py, which controls file import/export, graph output, and the overall process of each simulation (the basic simulation, non linear programming optimization, and the Q-learning approximate function for Reinforcement Learning) |
| CropElectricityYeildSimulatorDetail.py | This is the main class of calculation of each model, This implement the calculation of the revenue/cost of electricity and plant production and return the values to CropElectricityYeildSimulator1.py |
| QlearningAgentShadingCurtain.py | This is the main source implementing the Q-learning approximate function for Reinforcement Learning. It has all function for the algorithm such as getFeatures, getActions and getRewards, which are called by CropElectricityYeildSimulatorDetail.py |
| CropElectricityYeildSimulatorConstant.py | This class includes all of the constant values, which is called by all of the other classes to refer to constant values. |
| Lettuce.py | This is a model class for plant production, which is called by CropElectricityYeildSimulatorDetail.py |
| OPVFilm.py | This is a model class for electricity production, which is called by CropElectricityYeildSimulatorDetail.py |
| Util.py | This is a utility class, which has utility functions like reading files, plotting figures and saving files. |
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| (Sources for non linear programming optimization, which has nothing to do with INFO550 project) |  |
| SimulatorMINLPc.py | A file to run MIDACO solver. The NLP optimization process starts just by running this file. |
| SimulatorView.py | A file to run the Least Square Method with Cross Validation. The program starts just by running this, confirming the variable “case” defined in this source file is "LeastSquareMethod". |
| TwoDimLeastSquareAnalysis.py | The main class file processing the Least Square Method with Cross Validation. |
| midaco.py | The file to run MIDACO solver. This file was given from the developer of MIDACO. |
| midacopy.dll | The dynamic link library to run MIDACO solver |
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