



White Box Models

- The structure of the model is known and is developed from fundamental laws of physics, thermodynamics, and heat transfer;
- The model parameters are well known and used as inputs to the model.

Grey Box Models

- Combination of black box and white box models.
- When data-driven models (black box) are partly supported by explicit models (equations) with a physical meaning.

Black Box Models

- Purely data-driven/statistical/empirical models
- Uses mathematical equations from statistics to map influential inputs to the outputs.
- The source of data: on-board monitored data from sensors, data simulated from simulation tools, surveyor standard data from public benchmark datasets.