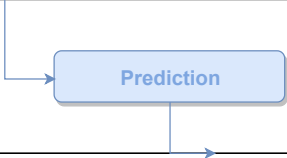


Data Analysis



Time Dependent Modeling

observe a trend in the response?

yes no

have non-seasonal time series predictors?

have time series predictors?

no

yes

yes

no

have more seasonal time series predictors?

no

yes

desire to visualize the trend, seasonality & noise?

no

yes

ARIMA
Exponential Smoothing (with trend & seasonality)

Time Series Decomposition

Vector Autoregression (VAR)

Transfer Function Models

Simple Exponential Smoothing

Space Dependent Modeling

interested in dealing with ...

spatial variability

local uncertainty

spatial uncertainty

Variogram

Kriging (point and block)

CoKriging (to account for secondary information)

Indicator Methods

Simulation Methods (e.g., Sequential Gaussian Simulation, Transition Probability Geostatistics or TPROGS)

Time Series Analysis

Geostatistics