SciML Emissions Forecasting Supporting Carbon Capture

VISIMO

Public sector customers

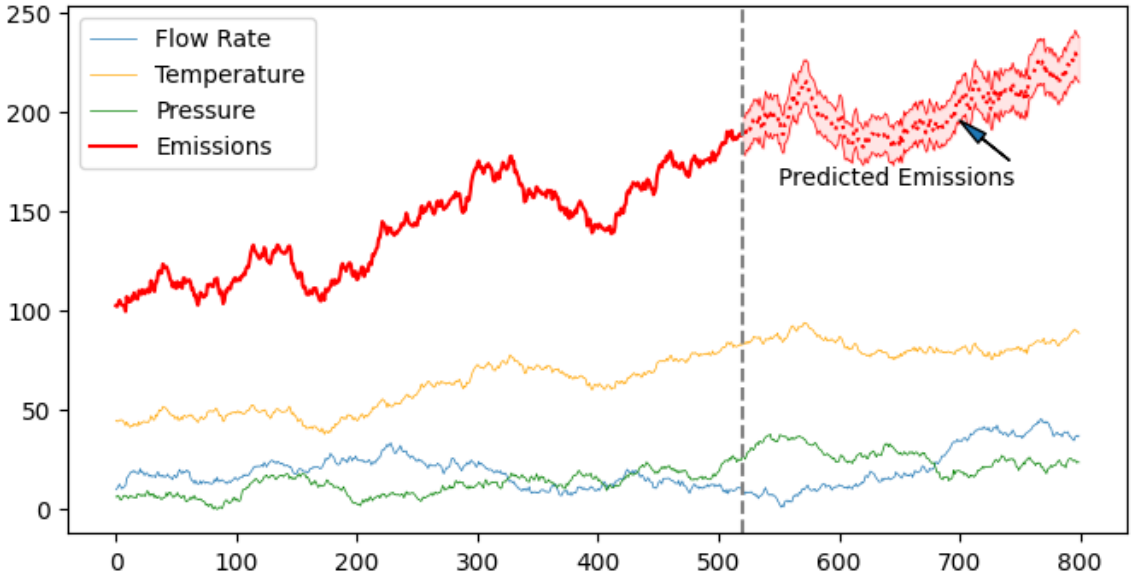
Partners for this project

TECHNOLOGY CENTRE MONGSTAD – catching our future

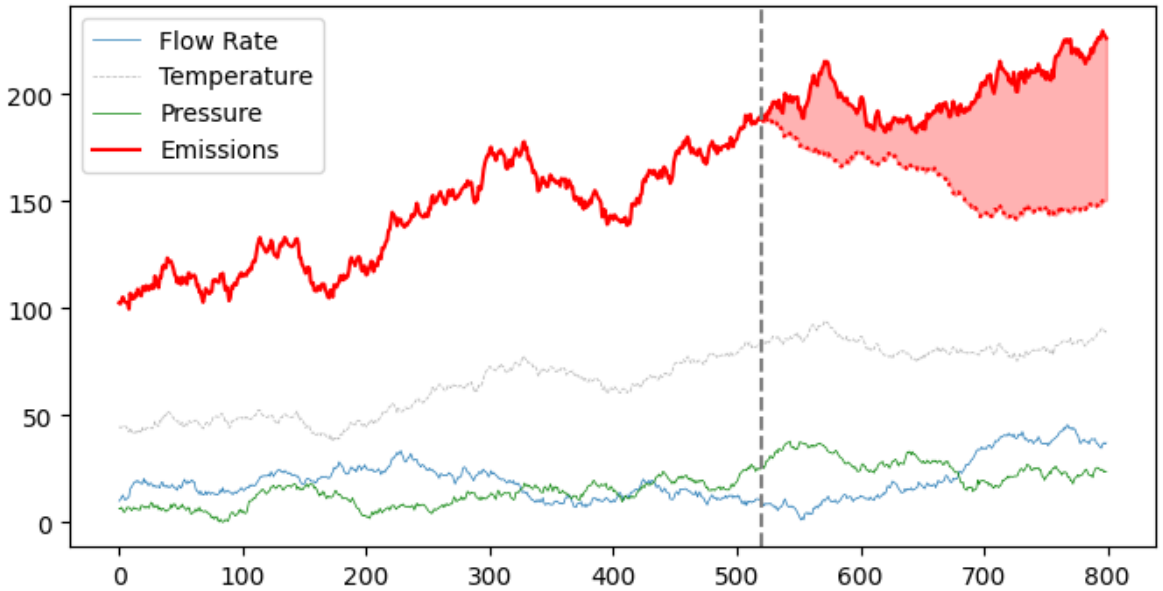
EPRI

ARISTOSYS

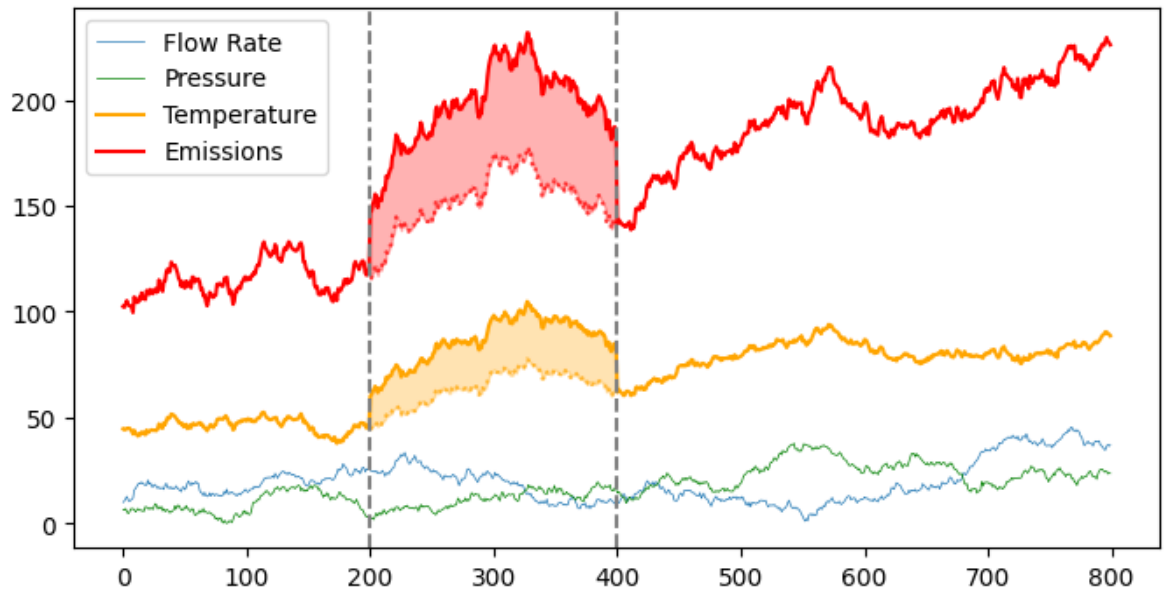
Forecasting



Causal Impact Analysis



Counterfactual Evaluation



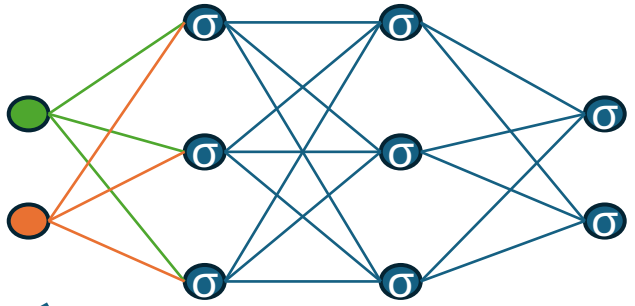
Neural / Universal Differential Equations

Mathematical expression of physical laws

$$\frac{dx}{dt} = x(t) - by(t)$$

High capacity function approximation

$$f_\theta\big(x(t), y(t)\big) =$$



$$\frac{dx}{dt} = x(t) - by(t) + f_\theta(x(t), y(t))$$