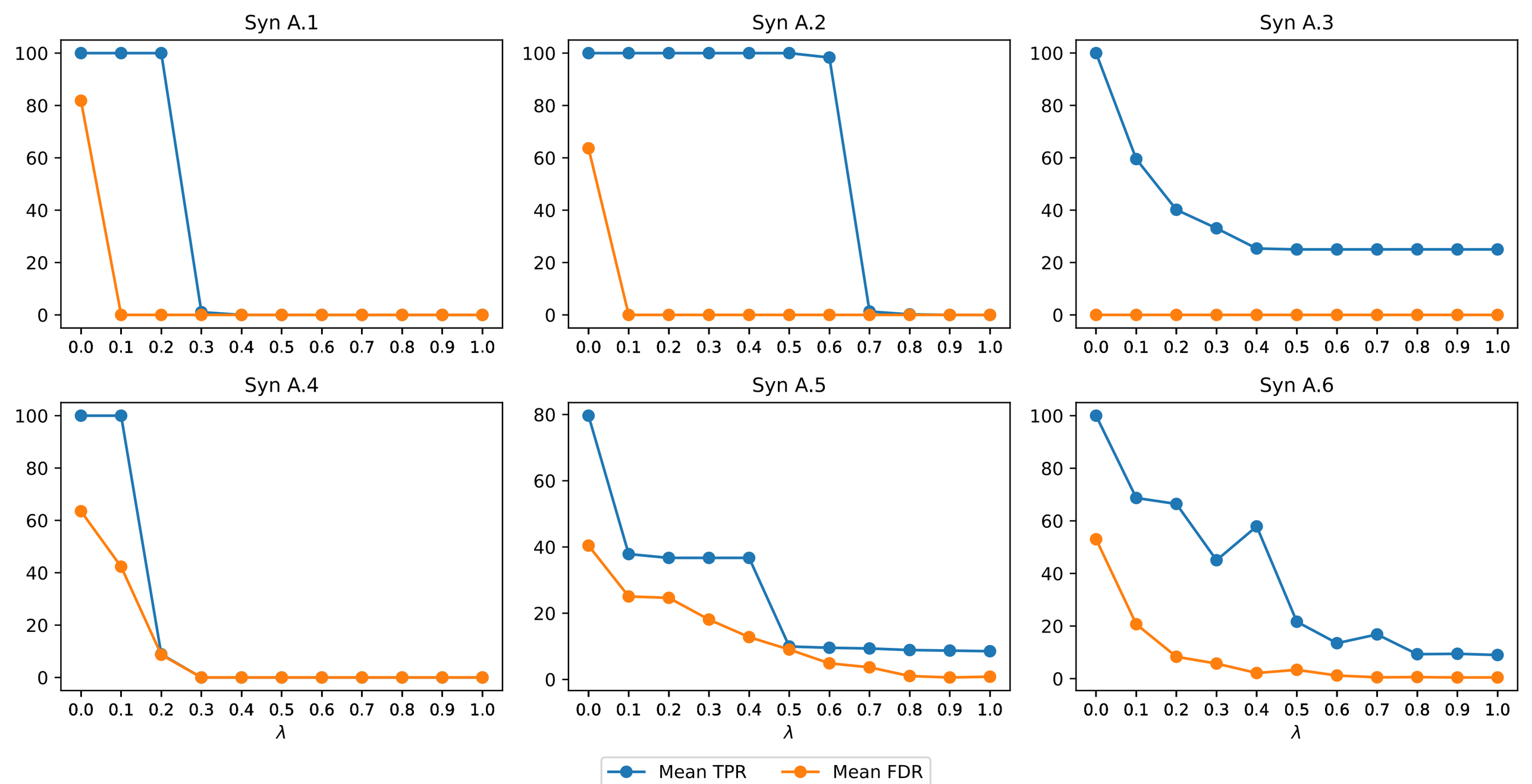
# Analysis of Performance Influencing Factors in INVASE

# Hyper-parameter Sensitivity Analysis




Individual Settings: Use *INVASE*, Apply Early Stop Policy ($\delta = 3e{-}3, T = 5$)

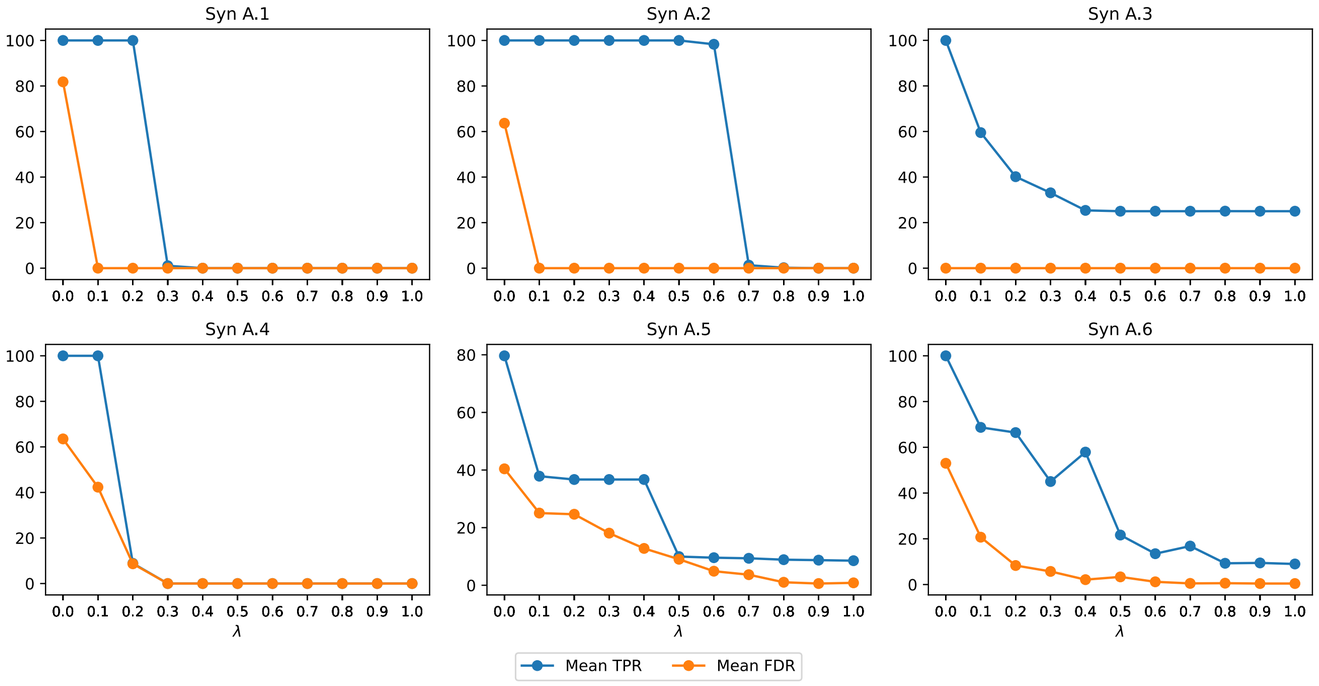
Activation: Syn A.1–A.5: Use ReLU; Syn A.6: Use SeLU.

- INVASE is highly sensitive to hyperparameter (in TPR & FDR)
- Effective tunning range is narrow
- Tiny change of $\lambda$ could lead to huge performance drop

➡ Should be mitigated for real application

# Analysis of Performance Influencing Factors in INVASE

## Hyper-parameter Sensitivity Analysis




Individual Settings: Use *INVASE*, Apply Early Stop Policy ($\delta = 3e{-}3, T = 5$)
Activation: Syn A.1–A.5: Use ReLU; Syn A.6: Use SeLU.

- INVASE is highly sensitive to hyperparameter (in TPR & FDR)
- Effective tunning range is narrow
- Tiny change of $\lambda$ could lead to huge performance drop

➡ Should be mitigated for real application

# Analysis of Performance Influencing Factors in INVASE

## The Impact of Baseline Model