## MSwM package

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The package for implementing Autoregressive Markov switching model

```
msmFit(object, k, sw, p, data, family, control)
```

- object: formula of class "lm"
  - Dependent variable: TotCpu%
  - Independent variables: RrcConnectionSetupComplete, X2HandoverRequest, Paging, ... (a subset of components in EventsPerSec)
- k: Number of states (regime)
- sw: Swiching coefficient
- p: Order of AR model
- control: a list of control parameters

## Output

- Parameter estimation
- State assignation
- Probability assign in each state
- Evolition of state assignation with probabilities

## Modeling