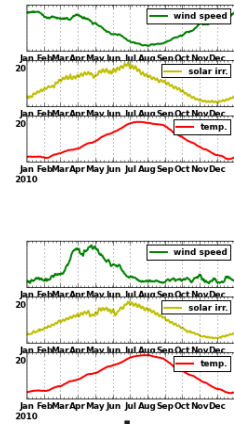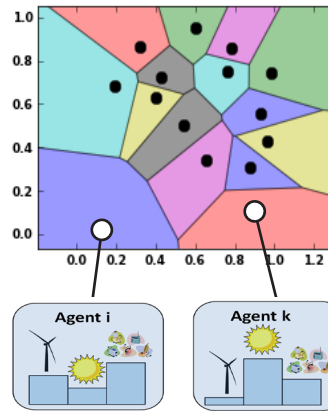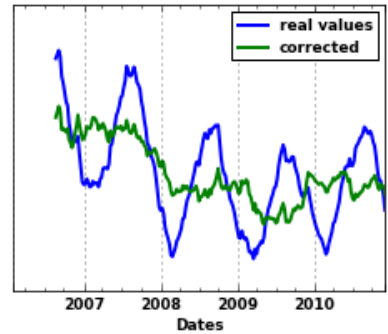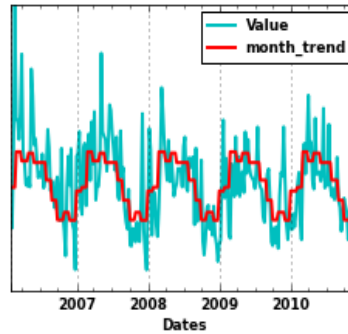**1**

Simulation

1. Space Dicretization

2. Parametrization
   - number of agent
   - climat vector
   - agent profile

3. Production/consump-tion simulation

4. Production sampling

Agent i

Agent k

wind speed

solar irr.

temp.

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
2010

wind speed

solar irr.

temp.

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
2010

2

Time Serie Analysis

1. Weather data resam-pling

2. Removal of seasonal effect

Value
month_trend

real values
corrected

Dates

Dates

3

Coalition Formation

1. Generate correlation graph

2. Clique percolation

3. forming non overlap-ping coalition