

emmaredfoot / RAVEN\_APS

Branch: master ▾

RAVEN\_APS / FALL / train\_eia\_fall.xml

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emmaredfoot Last push 46395ad 16 days ago

1 contributor

99 lines (94 sloc) | 3.17 KB

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1  <Simulation verbosity="debug" color="true">
2    <RunInfo>
3      <WorkingDir>./WorkingDir>
4      <Sequence>readInData,typicalHistory,train,serialize</Sequence>
5    </RunInfo>
6
7    <Steps>
8      <IOStep name="readInData">
9        <Input class="Files" type="" >rawDataFile</Input>
10       <Output class="DataObjects" type="HistorySet" >raw_data</Output>
11       <Output class="OutStreams" type="Plot" >Fall Raw Data Graph</Output>
12     </IOStep>
13     <PostProcess name="typicalHistory">
14       <Input class='DataObjects' type='HistorySet' >raw_data</Input>
15       <Model class='Models' type='PostProcessor'>TypicalHistoryPP</Model>
16       <Output class='DataObjects' type='HistorySet' >typical_data</Output>
17     </PostProcess>
18     <RomTrainer name="train">
19       <Input class="DataObjects" type="HistorySet" >typical_data</Input>
20       <Output class="Models" type="ROM" >ARMA</Output>
21     </RomTrainer>
22     <IOStep name="serialize">
23       <Input class="Models" type="ROM" >ARMA</Input>
24       <Output class="Files" type="" >romfile</Output>
25     </IOStep>
26   </Steps>
27
28   <DataObjects>
29     <HistorySet name="raw_data">
30       <Input>scaling</Input>
31       <Output>Demand</Output>
32       <options>
33         <pivotParameter>Time</pivotParameter>
34       </options>
35     </HistorySet>
36     <HistorySet name="typical_data">
37       <Input>scaling</Input>
38       <Output>Demand</Output>
39       <options>
40         <pivotParameter>Time</pivotParameter>
41       </options>
42     </HistorySet>
43   </DataObjects>
44
45   <Files>
46     <Input name="rawDataFile">raw_data_fall.csv</Input>
47     <Input name="romfile">ARMA_fall.pk</Input>
48   </Files>
49
50   <Models>
51     <PostProcessor name="TypicalHistoryPP" subType="InterfacedPostProcessor">
52       <method>TypicalHistoryFromHistorySet</method>
53       <subseqLen>24</subseqLen> <!--typical day -->
54       <outputLen>24</outputLen> <!-- 24 hours -->
55       <pivotParameter>Time</pivotParameter>

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56     </PostProcessor>
57     <ROM name="ARMA" subType="ARMA">
58         <Target>Demand,Time</Target>
59         <Features>scaling</Features>
60         <pivotParameter>Time</pivotParameter>
61         <Pmax>2</Pmax>
62         <Pmin>2</Pmin>
63         <Qmax>1</Qmax>
64         <Qmin>1</Qmin>
65         <outTruncation>positive</outTruncation>
66         <Fourier>24,23</Fourier>
67         <FourierOrder>2,2</FourierOrder>
68     </ROM>
69 </Models>
70 <OutStreams>
71     <Print name="samples_dump">
72         <type>csv</type>
73         <source>samples</source>
74     </Print>
75     <Print name="stats_out">
76         <type>csv</type>
77         <source>stats</source>
78         <what>input,output</what>
79     </Print>
80     <Plot name="Fall Raw Data Graph">
81         <plotSettings>
82             <plot>
83                 <type>line</type>
84                 <x>raw_data|Output|Time</x>
85                 <y>raw_data|Output|Demand</y>
86                 <xlabel>Time (s) (1 week)</xlabel>
87                 <ylabel>Demand</ylabel>
88                 <interpPointsX>604800</interpPointsX>
89             </plot>
90             <xlabel>Time (hrs)</xlabel>
91             <ylabel>Demand (MWe)</ylabel>
92         </plotSettings>
93         <actions>
94             <how>screen,png</how>
95         </actions>
96     </Plot>
97 </OutStreams>
98 </Simulation>

```