SimulationDataRecorder

Handles recording of the simulation data.

Properties  
**simulationData-** structure containing the fields:   
chainObj – the Rouse chain object initialized using the Rouse [add hyperlink] class.  
numChains – number of chains   
step – current simulation step  
time – current simulation time, calculated as step\*dt  
positions- the *current* position of the beads in the chain   
beadDist – pair-wise bead distance matrix, this in a multidimensional matrix of size [numBead X   
numBead X step]

simulationRound – the current round of simulation  
params – contains the parameters for the class  
paramList:   
saveType- [all/external/none] (see SaveResults [add hyperlink] method)  
resultsFolder – the path to the results folder. Can be relative or absolute.

Methods:

**SaveResults**- implements 3 types of saving: [all/external/none]

All- save all data. Data is stored on the class and exported

External- save all data to mat files. No data is saved on the class

Internal- data is saved only on the class

None- don’t save any data, no data is saved on the class and none is exported to mat files.

**ClearCurrentSimulationData-** clears the data from the fields