ComputationalModel

-burnIn: int
-thinning: int
-updateStrategy: int
-variableList: LinkedList<Variable>
-entityList: LinkedList<Entity>
-entityMapper: HashMap<String, Entity>
-variableMapper: HashMap<String, Variable>

+ComputationalModel(burnIn:int,thinning:int,
updateStrategy:int,variableList:LinkedList<Variable>,
entityList:LinkedList<Entity>,
entityMapper:HashMap<String,
Entity>,variableMapper:HashMap<String,
Variable>)

Variable

-affects: LinkedList<Variable>
-algorithm: String
-belongsTo: Entity
-column: int
-data: boolean
-depends: LinkedList<Variable>
-distribution: Distribution
-equation: Equation
-functional: boolean
-name: String
-missingValues: int
-proposal: Distribution
-proposalStrategy: String
-typeInteger: boolean
-updates: int

+Variable()
+Variable(belongsTo:Entity,column:int,data:boolean,
name:String,distribution:Distribution)
+Variable(belongsTo:Entity,column:int,data:boolean,
name:String,equation:Equation)
+addAffected(variable:Variable): void
+isData(): boolean
+isInteger(): boolean
+isFunctional(): boolean
+incrementMissingValues(): void

Entity

-dataFile: String
-isMatrix: boolean
-name: String
-size: int
-spatialMatrixFile: String
-variableList: LinkedList<Variable>
-xCoordinateString: String
-xCoordinate: Entity
-yCoordinateString: String
-yCoordinate: Entity

+Entity()
+Entity(name:String,data:String,spatialMatrix:String,
xCoordinateString:String,yCoordinateString:String)
+addVariable(variable:Variable): void
+getFile(): String
+link(mapper:HashMap<String, Entity>)

Equation

-ParameterString: String[]
-parameters: Variable[]
-equation: String
-startingIndex: int[][]

+Equation(equation:String,preprocessedParameters:String[],
startingIndexMatrix:int[][])

Distribution

-numberOfParameters: int
-intParameter: int[numberOfParameters]
-realParameter: double[numberOfParameters]
-variableParameter: Variable[numberOfParameters]
-parameterType: int[numberOfParameters]
-ParametersString: String[numberOfParameters]