

Random

meanVector

DCGMatrix columnWiseSource
-(DCGVector *) apply

covariantMatrix

DCGMatrix columnWiseSource
DCGVector mean
-(DCGMatrix*) apply

kurtosis

DCGMatrix *columnWiseVariableSource
NSNumber *bins
-(DCGMatrix *) apply

skewedness

DCGMatrix *columnWiseVariableSource
NSNumber *bins
-(DCGMatrix *) apply

~ use bin histogram to determine probability

randomVectorSample

dcgMatrix *columnWiseVariableSource;
dcgMatrix *randomSubset;
-(void) apply;

jointDensity

DCGMatrix *columnWiseVariableSource
NSNumber *bins
-(DCGVector *) apply

marginalDensities

DCGMatrix *columnWiseVariableSource
NSNumber *bins
-(DCGMatrix *) apply

deWhitening

DCGMatrix source
-(DCGMatrix) apply

Whitening

DCGMatrix source
-(DCGMatrix) apply

Dot Product Expectation

dcgMatrix *sourceColumnWise;
dcgVector *weights;
NSNumber *weightedMean;
@private
dcgMatrix *sourceWeightedCW;
-(void) apply