

# ADAMS

Advanced **D**ata mining **A**nd **M**achine learning **S**ystem

Module: adams-random



Peter Reutemann

January 7, 2021

©2014-2017



THE UNIVERSITY OF  
**WAIKATO**  
*Te Whare Wānanga o Waikato*



Except where otherwise noted, this work is licensed under  
<http://creativecommons.org/licenses/by-sa/4.0/>

# Contents

<b>1</b>	<b>Introduction</b>	<b>5</b>
<b>2</b>	<b>Flow</b>	<b>7</b>
	<b>Bibliography</b>	<b>9</b>



# Chapter 1

## Introduction

The *random* module provides extended support for random number generators and other randomization related actors.



## Chapter 2

# Flow

The following actors are available:

- *ArrayFolds* – generates subsets using a similar folds approach as cross-validation. Can output actual fold or inverse or both per fold number.
- *ArrayRandomize* – randomizes a copy of the array.
- *ArraySubSample* – generates a subsample from the array. Can output actual sample or inverse or both.
- *RandomNumberGenerator* – outputs a random number every time a token is received.

The following random number generators are available:

- *Beta*
- *Cauchy*
- *ChiSquare*
- *Exponential*
- *ISAACRandom*
- *JMathArrayInt* – uses JMathArray’s randInt.
- *LogNormal*
- *MersenneTwister*
- *Normal*
- *Triangular*
- *Uniform*
- *Weibull*
- *Well1024a*
- *Well19937a*
- *Well19937c*
- *Well44497a*
- *Well44497b*
- *Well512a*





# Bibliography

- [1] *ADAMS* – Advanced Data mining and Machine learning System  
<https://adams.cms.waikato.ac.nz/>