

Release log of library statistics_lib

2022-05016 v1.0.0-rc1

The first release.

2022-05-12 v0.8.0-dev1

Implemented and tested module *stat_tests*, which provided functions for the statistical hypothesis significance testing, including z-test, one sample and two samples (paired and unpaired) Student's t-tests, Welch t-test, F-test on samples variances, chi-squared test on the sample's variance, as well as ANOVA F-test, Levene's and Brown-Forsythe tests.

2022-04-28 v0.7.0-dev1

Implemented and tested module *inverse_distributions*, which provides implementation of a number of additional model distributions: inverse Gaussian, inverse Gamma, inverse Chi-squared, Cauchy and Levy distribution.

2022-04-21 v0.6.0-dev1

Implemented and tested module *distribution_classes*, which provides implementation of the model distributions: continuous and discrete - from which some are used in the statistical tests, including Gaussian / Z-distribution, Student's t-distribution, Chi-squared distribution and F-distribution.

2022-04-07 v0.5.0-dev1

Implemented and tested module *special_functions*, which provides inverse error function, beta function, incomplete beta functions and incomplete gamma functions.

2022-03-09 v0.4.0-dev1

Implemented and tested module *data_classes*, which provides classes for 1D and 2D statistical data encapsulation and calculation of the relevant statistical properties.

2022-02-24 v0.3.0-dev1

Implemented and tested module *ordered_functions*, which provides functionality to calculate median, quartiles, quantiles and modes of a sample data distribution, as well as Spearman and Kendall rank correlation coefficients.

2022-02-10 v0.2.0-dev1

- Refactored the code of *base_functions* module to avoid redundant input data sanity checks and allow proper exception traceback manipulation with the chained functions call
- Redefined the unit-tests for that module to use randomly generated sequences instead of pre-defined ones

2021-01-12 v0.1.0-dev1

Implemented, tested and documented module *base_functions* - 1D and 2D statistics supporting measurement with uncertainty data type.