論文のデータ解析メソッドを読む・解析結果を解釈する

テキスト

色々、考えてみたけれど、このコンテンツのこの並べ方より良い方法が思いつかないので

Statistics for Biologists (https://www.nature.com/collections/qghhqm/pointsofsignificance)

() で括っている項は飛ばすかもしれない項

- 1 Importance of being uncertain (https://www.nature.com/articles/nmeth.2613) Fig1 Fig2
- 2 Error Bars (https://www.nature.com/articles/nmeth.2659) Fig2
- 3 Significance, P values and t-tests (https://www.nature.com/articles/nmeth.2698) Fig1 Fig3
- 4 Power and sample size (https://www.nature.com/articles/nmeth.2738) Fig3
- 5 Visualizing samples with box plots (https://www.nature.com/articles/nmeth.2813) Fig1 Fig3
- 6 Comparing samples—part I (t-tests) (https://www.nature.com/articles/nmeth.2858) Fig1 Fig3
- 7 Comparing samples—part II (Multiple testing; FWER vs. FDR) (https://www.nature.com/articles/nmeth.2900) Fig 1 Fig 3
- 8Nonparametric tests (https://www.nature.com/articles/nmeth.2937) Fig2
- ((Designing comparative experiments))
- (Analysis of variance and blocking)
- ((Replication))
- ((Nested designs))
- ((Two-factor designs))
- (Sources of variation)
- ((Split plot design))
- 9 Bayes' theorem (https://www.nature.com/articles/nmeth.3335) No fig
- 10 Bayesian statistics (https://www.nature.com/articles/nmeth.3368) Fig1 Fig2
- (Sampling distribution and the bootstrap)
- ((Baeyesian networks))
- (Association, correlation and causation)
- 11 Simple linear regression (https://www.nature.com/articles/nmeth.3627) Fig1 Fig3
- ((Multiple linear regression))
- (Analyzing outliers: influential or nuisance)
- ((Regression diagnostics))
- 12 Logistic regression (https://www.nature.com/articles/nmeth.3904) Fig1 Fig2
- ((Classification evaluation))
- 13 Model selection and overfitting (https://www.nature.com/articles/nmeth.3968) Fig1 Fig3
- (Regularization)
- 14 P values and the search for significance (https://www.nature.com/articles/nmeth.4120) Fig1
- 15 Interpreting P values (https://www.nature.com/articles/nmeth.4210) No fig, but title.
- 16 Tabular data (https://www.nature.com/articles/nmeth.4239) Table1
- 17 Clustering (https://www.nature.com/articles/nmeth.4299) Fig1 Fig2
- 18 Principal componenet analysis (https://ja.wikipedia.org/wiki/%E4%B8%BB%E6%88%90%E5%88%86%E5%88%86%E6%9E%90) Wiki image
- ((Classification and regression trees))
- (Ensemble methods: bagging and random forests)

- 19 Machine learning: a primer (https://ja.wikipedia.org/wiki/%E6%A9%9F%E6%A2%B0%E5%AD%A6%E7%BF%92) Wiki 右カラム
- 20 Machine learning: supervised methods (https://www.nature.com/articles/nmeth.4551) Fig1 Fig2 Fig3
- ((Statistics versus machine learning))
- (The curse(s) of dimensionality)
- ((Optimal experimental design))
- ((Predicting with confidence and tolerance))
- ((Two-level factorial experiments))