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Thomas Haslwanter

An Introduction to Statistics with Python

With Applications in the Life Sciences

Reihe: Statistics and Computing

- Provides an introduction to the free software Python, an alternative to R for statistical computing
- Covers common statistical tests, including their implementation and working solutions in Python
- Highlights various applications, mainly in the life sciences

This textbook provides an introduction to the free software Python and its use for statistical data analysis. It covers common statistical tests for continuous, discrete and categorical data, as well as linear regression analysis and topics from survival analysis and Bayesian statistics. Working code and data for Python solutions for each test, together with easy-to-follow Python examples, can be reproduced by the reader and reinforce their immediate understanding of the topic. With recent advances in the Python ecosystem, Python has become a popular language for scientific computing, offering a powerful environment for statistical data analysis and an interesting alternative to R. The book is intended for master and PhD students, mainly from the life and medical sciences, with a basic knowledge of statistics. As it also provides some statistics background, the book can be used by anyone who wants to perform a statistical data analysis.

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