

SOCR Tools

Distributions

This set of Java applets provides one of the most diverse set of continuous and discrete interactive distribution calculators. Users first choose a distribution of interest and the corresponding parameters and then compute probabilities or critical values for any distributions using mouse or keyboard controls.

Experiments

A number of interactive experiments used to demonstrate fundamental concepts in probability and statistics. These applets are frequently employed to motivate the introduction of new statistical concepts and methodologies.

Analyses

A suite of web-based graphical user interfaces to basic statistical analysis methods.

Games

A collection of dynamic computer games demonstrating a variety of situations where chance and variation and unavoidable.

Modeler

A data sampling and simulation tool, using the distributions provided as part of the SOCR Distributions library, that includes a complex data model fitting functionality.

Charts

SOCR Charts provide a diverse collection of tools for data plotting, charting, visualization and EDA.

Additional Resources

A number of external tools for statistical computing data visualization and analysis are linked to from within the SOCR Additional resource archive. Ffu

The goals of the SOCR Resource are to design, validate and freely disseminate knowledge. SOCR specifically provides portable online aids for probability and statistics education, technology based instruction and statistical computing.

Statistics Online Computational Resource

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SOCR Courses

Stats 10 - Introduction to Statistical Reasoning

Stats 13 - Statistical Methods for the
Health and Life Sciences

Stats 35 - Computational & Interactive
Probability Theory

Stats 100A - Probability Theory

Stats 110A/110B - Applied Probability & Statistics
for Engineers

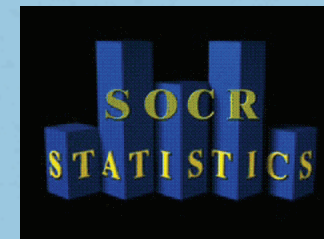
Stats 233 - Statistical Methods for
Biomedical Imaging

Stats 130D - Statistical Computing

Stat 251 - Statistical Methods for Life Sciences


Neuroscience 272 - Brain Mapping &
Neuroimaging

Statistics Online Computational Resource
UCLA



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SOCR =  Statistical Computing
Technology-based Instruction
Open-Source Project

<http://www.SOCR.ucla.edu>

<http://wiki.stat.ucla.edu/socr>

