

Certificate of participation

Renato Duarte

took part from 17th to 19th November 2014 in the training course

Data analysis and data mining with Python

given by Dr. Olav Zimmermann and Dr. Jan Meinke (JSC) as part of the interdisciplinary training programme of Forschungszentrum Jülich.

Pandas, matplotlib, and scikit-learn make Python a powerful tool for data analysis, data mining, and visualization. All of these packages and many more can be combined with IPython to provide an interactive extensible environment. In this course, we explored matplotlib for visualization, pandas for time series analysis, and scikit-learn for data mining. We used IPython to show how these and other tools can be used to facilitate interactive data analysis and exploration.

Day 1: Basic data analysis and visualization

- Introduction to IPython for interactive data analysis.
- pandas
- NumPy
- matplotlib

Day 2: Advanced data analysis visualization

- pandas
- Statsmodels
- Mayavi2

Day 3: Advanced topics

- Portable data formats
- scikit-learn
- PyMAFIA

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place, date

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