



1st Summer School on **SCIENTIFIC** DATA ANALYTICS AND VISUALIZATION

Cineca- Milan, 8 - 12 June 2015

AGENDA

Day 1

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| General Introduction | 11.00-13.00 |
| Break | |
| Introduction to data analytics | 14.00-15.00 |
| Unsupervised techniques | 15.00-15.45 |
| Predictive modeling/Machine Learning | 15.45-17.00 |

Day 2

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| Introduction to R with parallel libraries | 9.00-9.45 |
| R examples on predictive modeling | 9.45-10.15 |
| R examples on unsupervised techniques | 10.15-10.45 |
| R Exercise | 11.00-13.00 |
| Break | |
| Text Mining (theory) | 14.00-15.00 |
| Text Mining (Exercise) | 15.00-17.00 |

Day 3

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| Introduction to Hadoop, MapReduce and Apache Spark | 9.00-13.00 |
| Break | |
| Apache Spark and MLlib (Exercise) | 14.00-17.00 |

Day 4

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| Introduction to Scientific Python NumPy, SciPy, Pandas | 9.00-13.00 |
| Break | |
| Exercises | 14.00-17.00 |

Day 5

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| Overview of Scientific Visualization | 09.00 - 13.00 |
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