



Dipartimento di Ingegneria  
informatica, automatica e gestionale  
Antonio Ruberti

Organising committee

- Alessandro Avenali
- Giuseppe Catalano
- Cinzia Daraio (Director of the course)

Technical support

Edoardo Maria Tronci

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Practical details

- No fees to be paid by European participants
- To all accepted participants will be provided information about the software programs that will be used during the course

Facilities supplied

- Background material
- Slides of the course
- Practical exercises on the softwares that will be used during the course
- Programs for running and implementing the proposed methods

Deadline

31 of July 2020

Information

tronci@diag.uniroma1.it

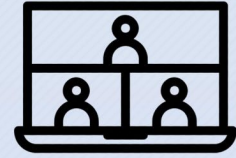


RESEARCH INFRASTRUCTURE FOR SCIENCE  
AND INNOVATION POLICY STUDIES

15-17 September 2020








Data Quality  
for Research and  
Higher Education  
Studies  
Methodological  
Course

DIAG Department  
Sapienza University of Rome



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## COURSE OBJECTIVES

-  Introduce the participants to the importance of Quality issues for Data on research and higher education studies
-  Provide the participants with the basic knowledge for understanding and use data quality techniques in their context
-  Propose a tool for implementing a minimum set of Data Quality techniques in their context of application
-  Offer tutorials on the main software that will be used during the course
-  Encourage the participants to explore the proposed tool with their own datasets
-  Offer the possibility to interact with the Course's lecturers to have advice on their own specific needs
-  Expose participants to seminars on advanced topics related to data quality issues and methodological approaches

## PROGRAM AND CONTENTS

### Tuesday 15 September 2020

15:00 -16:30 Welcome of participants and introductory lectures

Introduction: the challenge of data quality for Research and Higher Education (Cinzia Daraio)

15:45 State of the art of data quality techniques (Monica Scannapieco)

16:30 Break

16:45 -19:00 Laboratory session

Tutorial on Python (Giammarco Quaglia)

### Wednesday 16 September 2020

12:30 -14:30 mini-course: Optimization and Machine Learning for the Imputation of Missing Interconnected Data (Renato Bruni)

14:30 -15:00 Break

15:00 -16:00 Laboratory Session

Developing Imputation techniques in Python (Davide Aureli)

16:00 -16:15 Break

16:15 -17:15 Why accounting systems matter for data quality (Alessandro Avenali)

17:15 -17:30) Break

17:30 -18:10 Seminar: Data quality relevance for assessing the impact of non-academic staff (Joanna Wolszczak-Derlacz)

18:10 -18:20) Break

18:20 -19:00 Laboratory Session

Accounting systems and data quality (Simone Di Leo)

### Thursday 17 September 2020

15:00 -18:30 with breaks mini-course with laboratory session:

Visual Analytics for Data Quality (Marco Angelini)

18:30 -19:00 Closing session and take away (Cinzia Daraio)

## AUDIENCE TARGETED

RISIS Database managers, researchers (including PhD students and or post-doc) interested in data quality methods for research, education and innovation policy.

## REQUIREMENT FOR PARTICIPATION

Priority will be given to RISIS members, and to those in charge of the RISIS facilities. The remaining places will be allocated to researchers according to their CV and interest for their research