## Workshop/Tutorial title: Data analytics in healthcare / Tutorial

**Organizers**

- **Prof. Themis P. Exarchos**  
  Dept. of Informatics, Ionian University, Corfu, Greece
- **Mr. Vasileios C. Pezoulas**  
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### Short description

This workshop will present new trends on data analytics in healthcare, while it will discuss the significant challenges occurring when managing and analyzing large amounts of data. Current methods, ranging from data harmonization to the application of prediction models for disease management, will be presented. Considering that new technologies have not been holistically validated yet, the workshop will contribute positively to the adoption of new practices in data analytics in healthcare.

### Contents

- **Types and sources of big data** in healthcare
- **Data protection**
- **Data sharing**
- **Data quality and curation**
- **Data standardization**
- **Data harmonization**
- **Machine learning** in healthcare
- **Cloud infrastructures** and databases
- **Challenges**

### CVs of the organizers

Themis P. Exarchos is a Computer and Informatics Engineer, with a PhD in Medical Informatics related to Clinical Decision Support Systems.

Vasileios C. Pezoulas is an Electrical and Computer Engineer and is currently a PhD student in Biomedical engineering.