

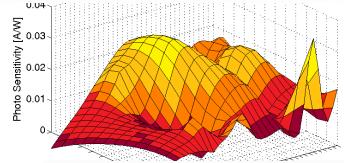
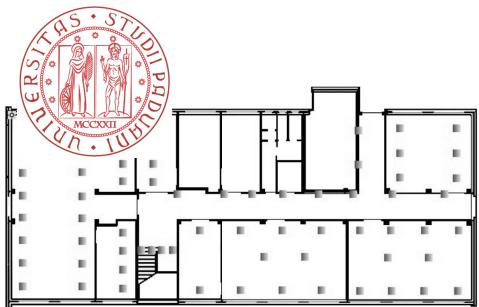
DSC 96

Workshop in Data Science

- Dr. Giorgio Quer
- Contact:
 - gquer@ucsd.edu
 - @GiorgioQuer
- Office:
 - SDSC XXX, Mo 6.30-7.30pm
 - Today: write me an email, meeting online
- Data Science:
 - capture
 - maintain
 - process
 - analyze
 - communicate

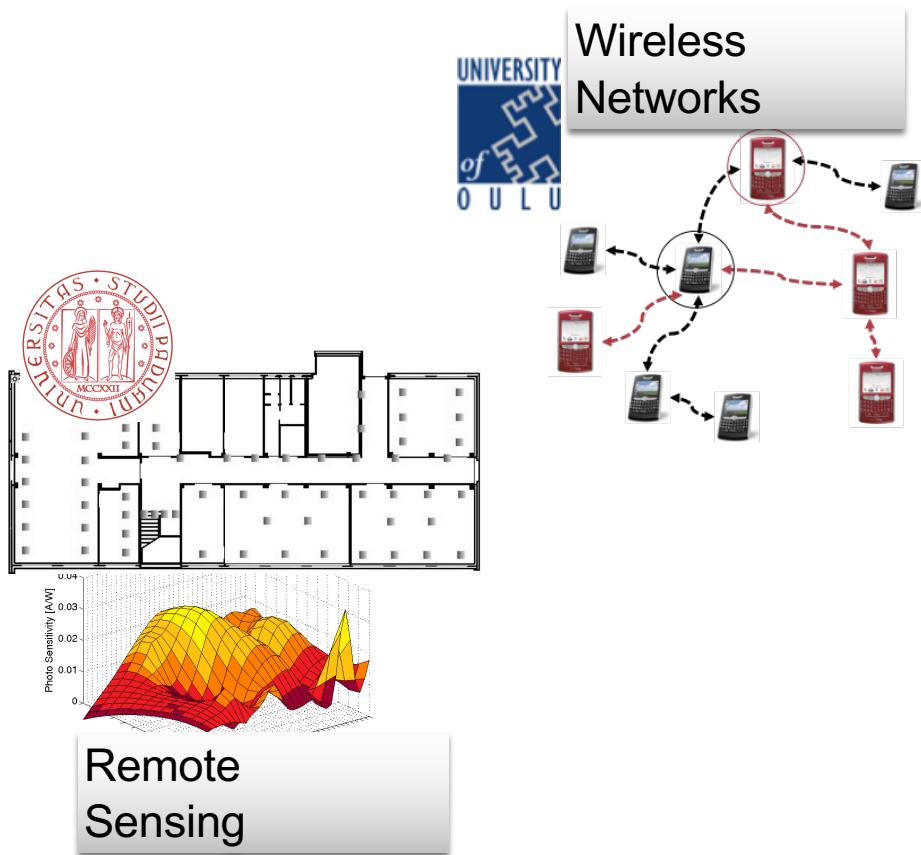


From WSN

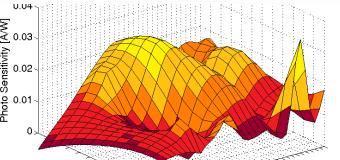
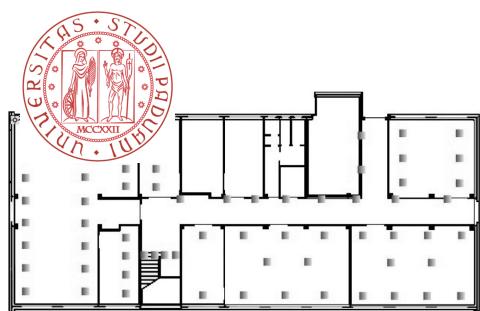


Remote
Sensing

From WSN



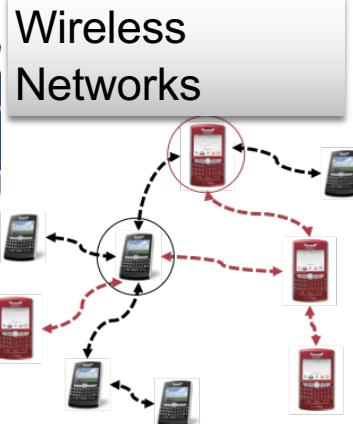
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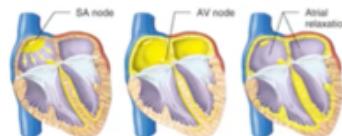
Remote
Sensing



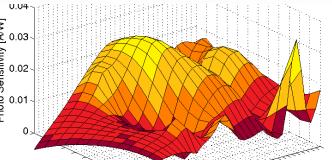
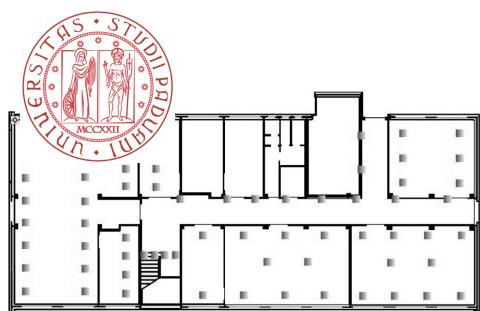
Wireless
Networks



Wearable and
e-Health



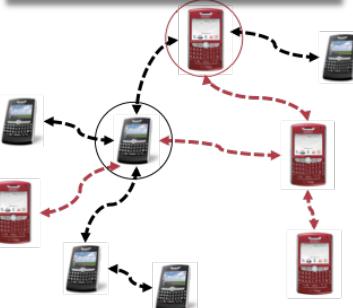
From WSN to health



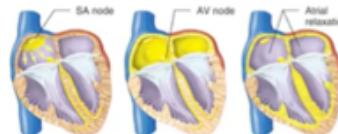
Remote
Sensing



Wireless Networks

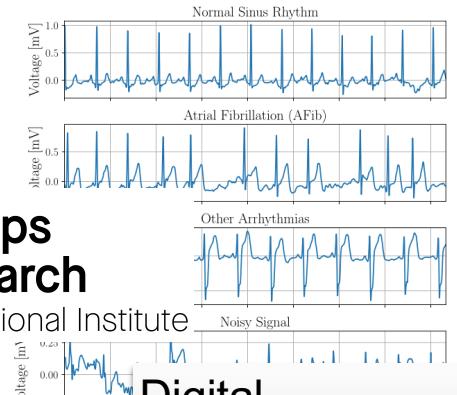


Wearable and e-Health



Scripps Research

Translational Institute



Digital Medicine

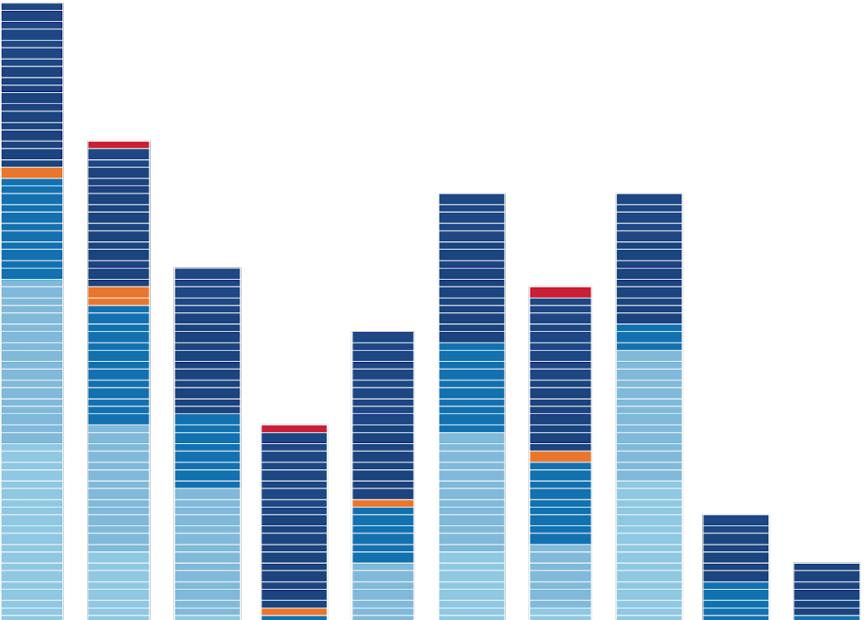


What do you want to know how to do?

<https://www.dsc96.com/>

Announcements

- Readings (Week 1 due Friday 1/10)
- Email: gquer@ucsd.edu
- Subject line:
 - [DSC96 W20]: Week **01**, Sec **A/B**, **YourFirstName YourLastName**
- Email content:
 - Your comments/ questions/ observations on the proposed lectures

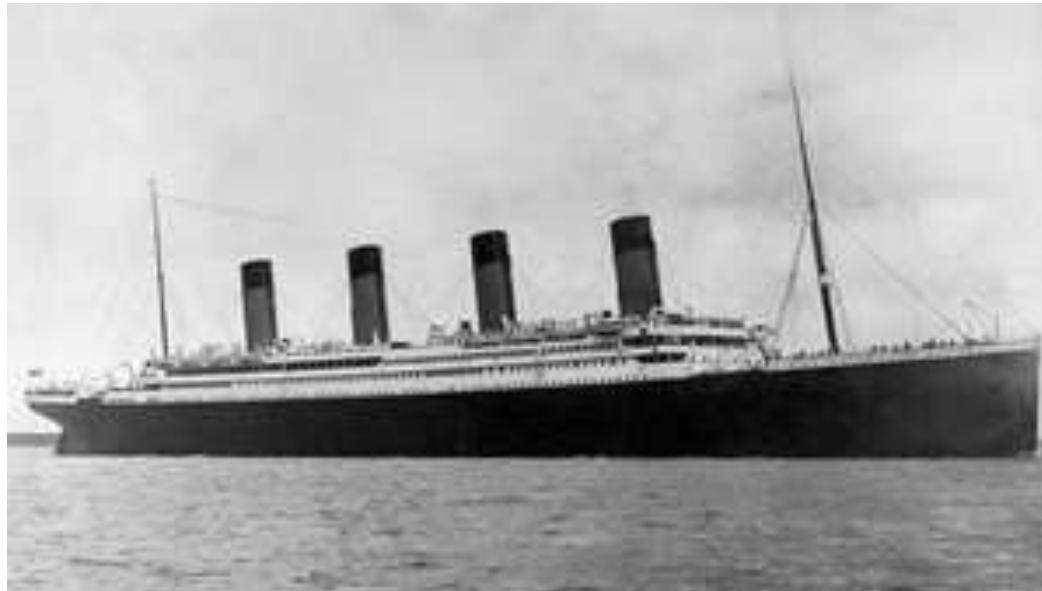


• Tableau basics

- Intro to interface
- Importing
- Dimensions and Measures
- Chart types
- Finding the story
- Practice on your own

Titanic Data

- How many people were on the ship?
- What was the total of all fares paid?



Tableau

- Dimensions and Measures
- Chart Types
- Aggregations
- Filters
- Calculated Values

Aggregation Link: https://onlinehelp.tableau.com/current/pro/desktop/en-us/calculations_calculatedfields_aggregate_create.htm

Titanic data

- Pclass:
 - It represent the class for each passenger (first, second, third)
 - 1,2,3
- Tableau
 - It guesses it is a number (like the amount paid): it is in **Measures**
 - It makes sense for Tableau to sum them up or to average them
 - What is the meaning of: average class is 1.85 ?
- Solution
 - Drag pclass it to **Dimensions** !
 - Change the data type to **string**
- What about age?
 - Age in bins (drag to Dimensions, Create, Bins)
 - Fix reasonable intervals (10 years?)

- Titanic dataset and cool things you can do with it: <https://www.kaggle.com/c/titanic>
- Tableau official training:
<https://www.tableau.com/learn>
- Tableau examples with Titanic data:
<https://public.tableau.com/search/all/titanic>

Titanic questions

- Can you attribute survival to a single primary trait?
- In other words, can you attempt to tease apart the confounding effects of pclass/age/sex, when assessing one?
- Can you explain why the distribution of fares by pclass seems off? why are some 3rd class tickets more expensive than first class?
- Does group size have an effect on survival rate?