



UNIVERSITÀ DEGLI STUDI DI MILANO  
FACOLTÀ DI SCIENZE E TECNOLOGIE

# Bootstrap Day

Start off on the right foot!

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DEPARTMENT	COURSE	DESCRIPTION	PREREQS
COMPUTER SCIENCE	CPSC 432	INTERMEDIATE COMPILER DESIGN, WITH A FOCUS ON DEPENDENCY RESOLUTION.	CPSC 432



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# Benvenuti in Statale!

Presentazione dell'Ateneo  
e delle discipline informatiche





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Benvenuti in Statale!

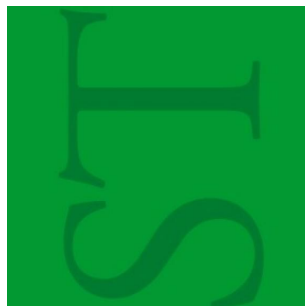
**Don't  
PANIC!**

# What's in a University?

- A community of learning people, by studying



Università  
degli Studi  
di Milano



Facoltà  
di Scienze  
e Tecnologie



Dipartimento  
di Informatica

TEACHING

RESEARCH

“THIRD  
MISSION”

# Important sources

- Ufficio per la didattica
  - via Celoria 18
- Timetable: <http://easystaff.divisi.unimi.it/PortaleStudenti/>
- Web
  - <http://www.di.unimi.it>
  - <https://www.unimi.it/it/corsi/facolta-e-scuole/scienze-e-tecnologie/scienze-e-tecnologie-informatiche>



# University sites

- Via Celoria 18: Faculty and Teaching rooms



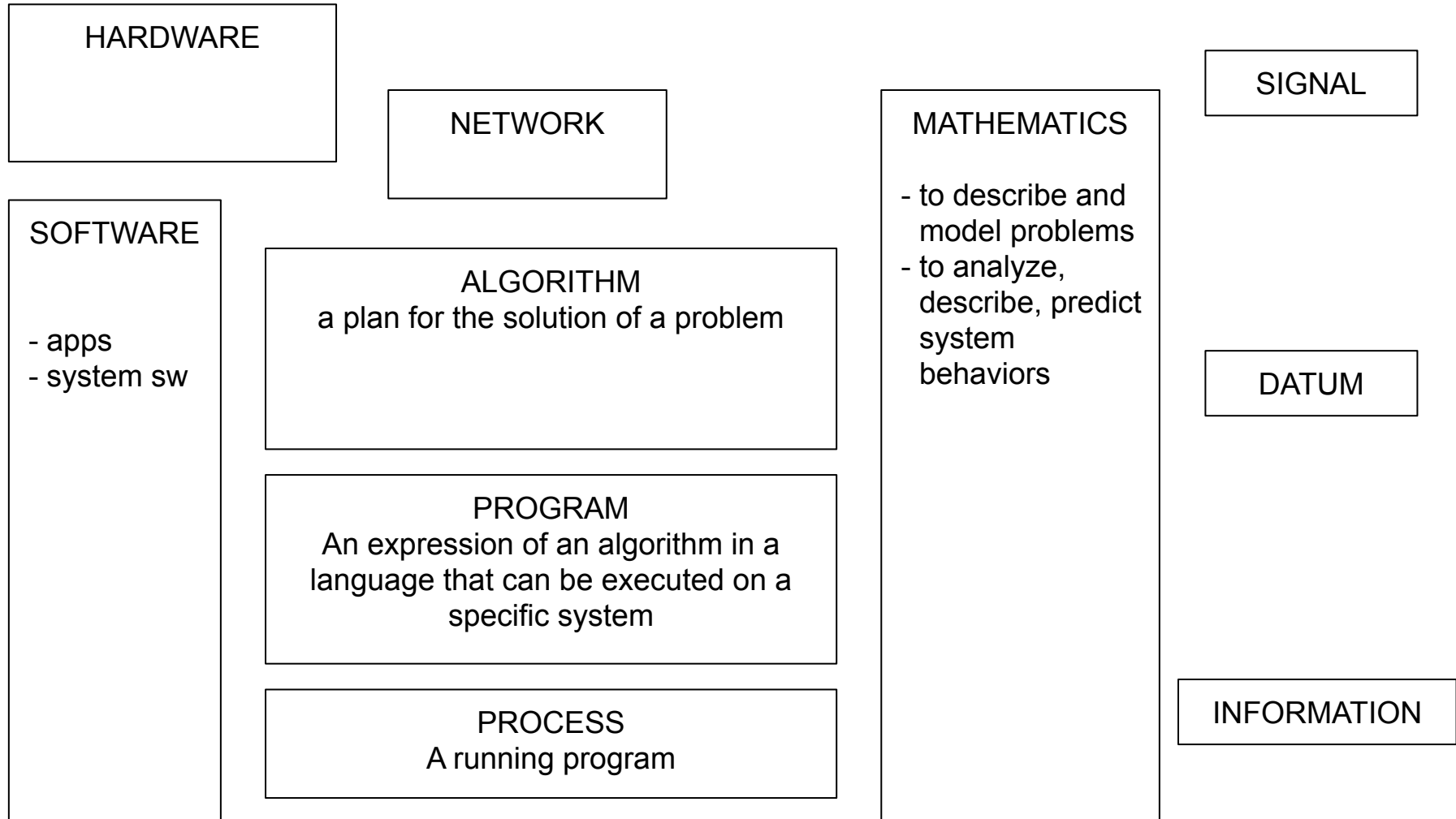


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A view from the top



# Key concepts





# Never forget the fundamentals!

- It's easy to feel the need to rush to innovative applications (React? NFT? ChatGPT?)
- A **firm foundation of your knowledge** is far more important than ephemeral keywords in your resume!
  - more stable even in the medium-term
  - the dedication you can invest is doomed to decrease with time
  - innovation leaps often come from revisiting/rethinking basic hypotheses

# Just an example

- Floating numbers!
  - IEEE 754: 52 bits mantissa, 11 bits exponent
  - Lot of precision, small exponent
  - Very good choice for scientific computing, but bad for AI
    - Lot of memory
    - Too much precision causes overfitting
- YOU can change them, if you know what you are doing!
- TensorFlow:
  - 7 bits mantissa, 8 bits exponent
  - redefine underflow/overflow/NaN