Pascal Symposium

From Challenges to Competitions

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Motivations

What Pascal delivered

- ▶ Scientific breakthrough
- ▶ International visibility

can we do something for the EU citizen ?

The Competition programme aims to contribute to everyday life

- ▶ when the need is clear
- ▶ when the technology is ripe
- ▶ … when not profitable
- ▶ complementary to Harvest programme

The competition programme

Proposal

- What:
  - Specifications of a software
  - Assessment criteria
- Relevance claim
  - Useful
  - Feasible in a short amount of time

Participation

- Internship, project
- Rewards
- ML-Open Source Software   *to be discussed...*

Some examples

For academics
- Finding reviewers for a paper / a proposal

- Polishing slides (color, symmetry, ...)

- Detecting plagiarism

- Removing cut-and-paste

- Giving marks to student exercizes

- Cleaning course videos

Examples, followed

For social skills

- Existing body of knowledge: video analysis

- Applications:
    - Finding outliers

    - Analyzing non verbal communication

    - Training (for hiring interviews)

Where would the annotated data come from ?
Use theatre plays ? the author's intentions are known...

Examples, followed

Swarm-based Transportation

hitch-hiking on the flight

- Existing technology allows for
    - Emission: *I'm at the station, I'd like to go uphill*
    - Reception: by all cars in the neighborhood

- Decision making problems:
    - Is the car trajectory compatible with the demand ?
    - Trust issues

Competitions, summary

- Specifying software is fun   funnier than writing it
- and faster
- ML people currently are the best ones to see what can be done with the technology
- Highly effective communication
- Attracting students: a core issue