Pascal Symposium

From Challenges to Competitions

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Motivations

What Pascal delivered

- Scientific breakthrough
- International visibility

... when not profitable

The Competition programme aims to contribute to everyday life

- when the need is clear
- when the technology is ripe
- 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 exercises
- 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 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