

Open Science & Benchmarks

Marcel Salathé, Digital Epidemiology Lab, EPFL





A Game of Words

Open Science?

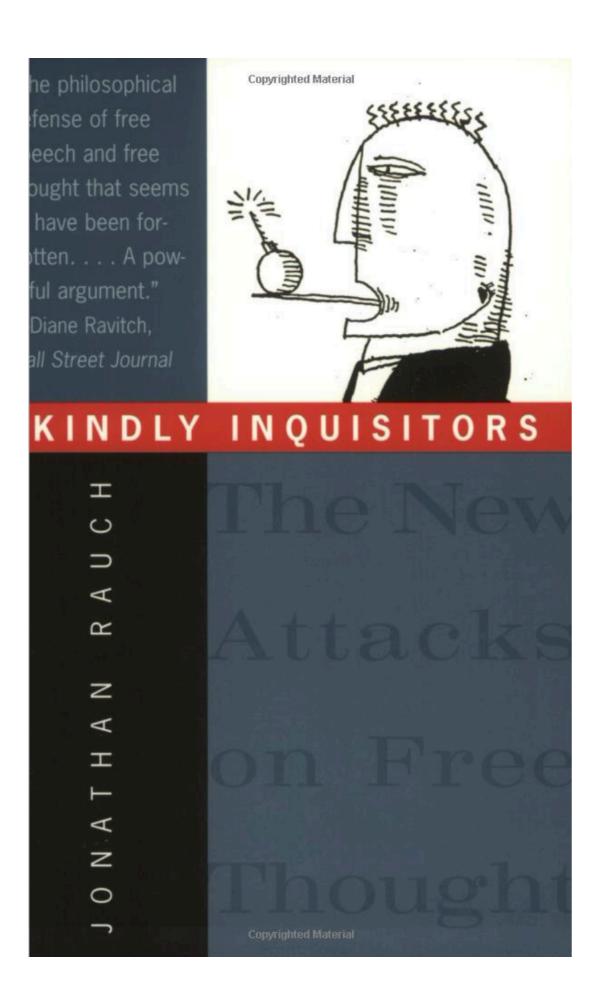


A Game of Words

Open Science?

Evidence-based Medicine?





Kindly Inquisitors Jonathan Rauch





"Checking of each, by each, through public criticism"



"Checking of each, by each, through public criticism"

1. No one gets the final say



"Checking of each, by each, through public criticism"

- 1. No one gets the final say
- 2. No one has personal authority



This system has created enormous social wealth / health. That's why society invests heavily in it.



This system has created enormous social wealth / health. That's why society invests heavily in it.

But it (implicitly) asks us to do it as efficiently as possible -> **open!**





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Data availability

The datasets generated and/or analyzed during the current study are available from the corresponding author upon reasonable request.



Benchmarks



Benchmarks

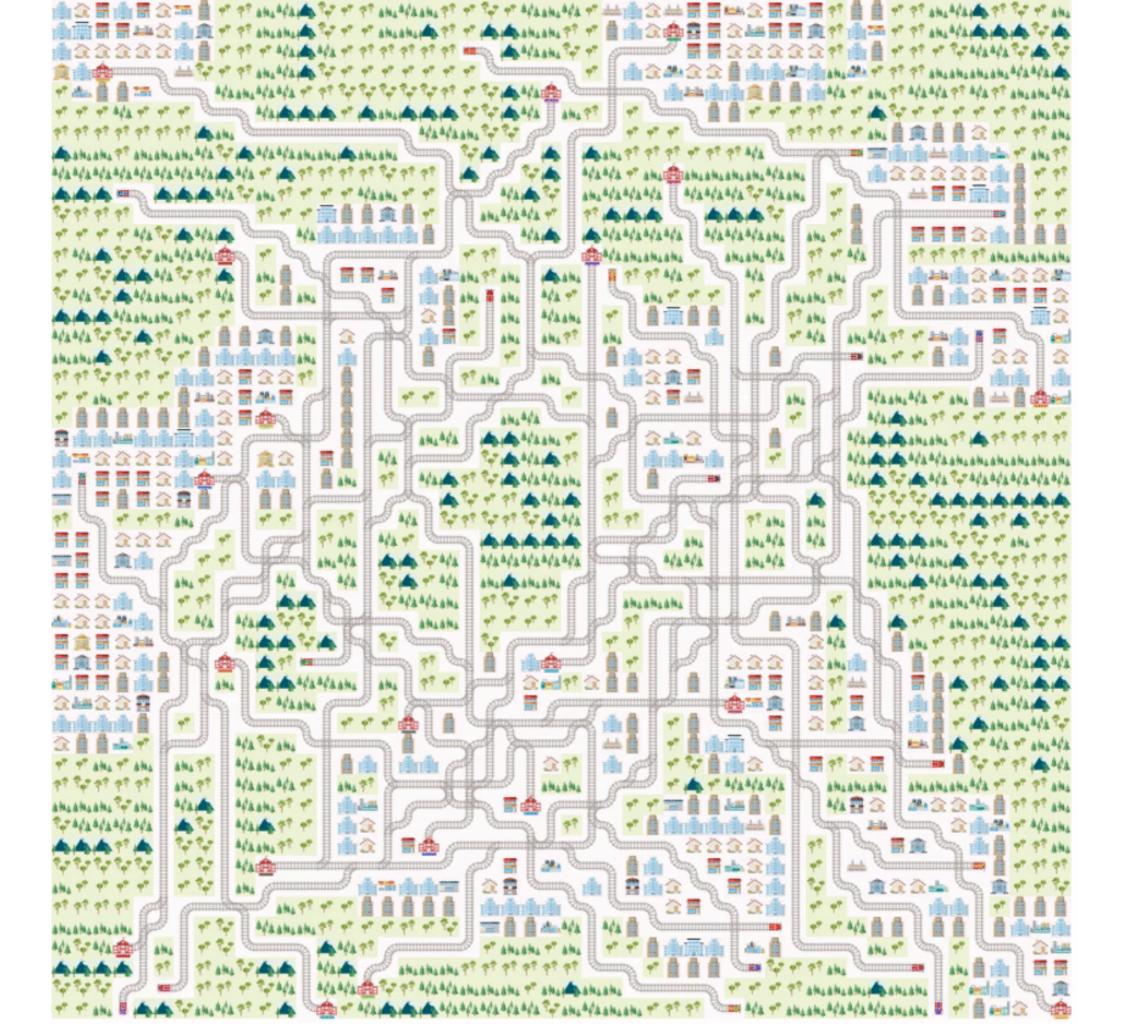
1. Agree on formalization of a problem



Benchmarks

1. Agree on formalization of a problem

2. Agree on quantifying the solutions



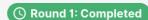




Challenges Success Stories Blog Admin •••









Flatland Challenge

Multi Agent Reinforcement Learning on Trains.

₩ By SBB

⊙ 25.1k **≗** 390

506

Follow

- 30'000 Prize Money
- ★ 5 Travel Grants
- Misc Prizes : To Be Announced

Participants Overview Leaderboard Discussion Submissions Resources

Participate

Entries

Edit Challenge

Round 0: Exploration Round

Participants

Round 1

Round 2

Media

mugurelionut 1.000 -892.490 -4.110 13

Fraction of done-agents

Mean Reward normalized_reward

Mon, 5 Aug 2019 21:56 View

Last Submission



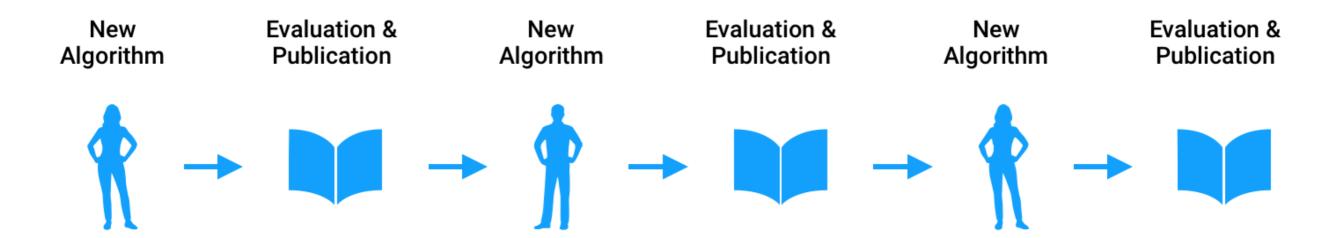
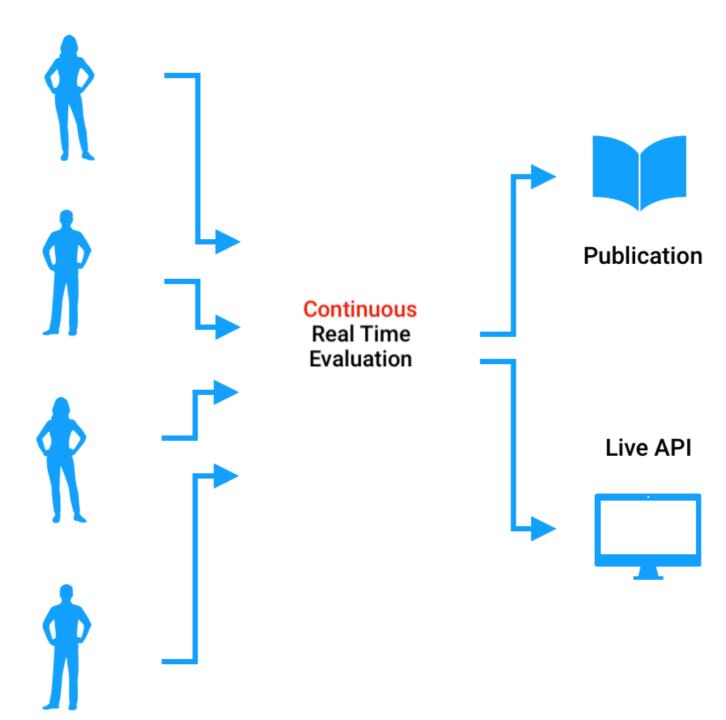


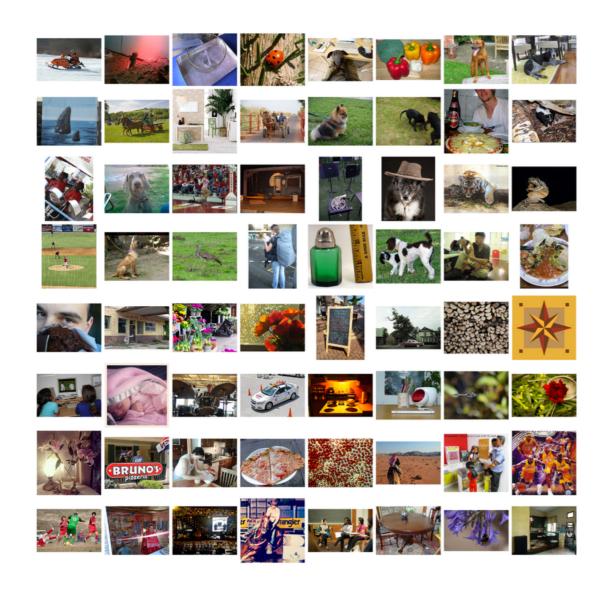
Fig 1: Serial, DYI evaluation is slow and unreliable

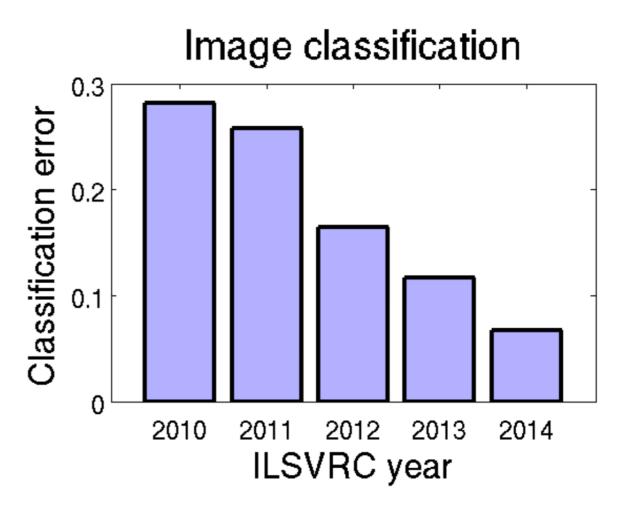


New Algorithms

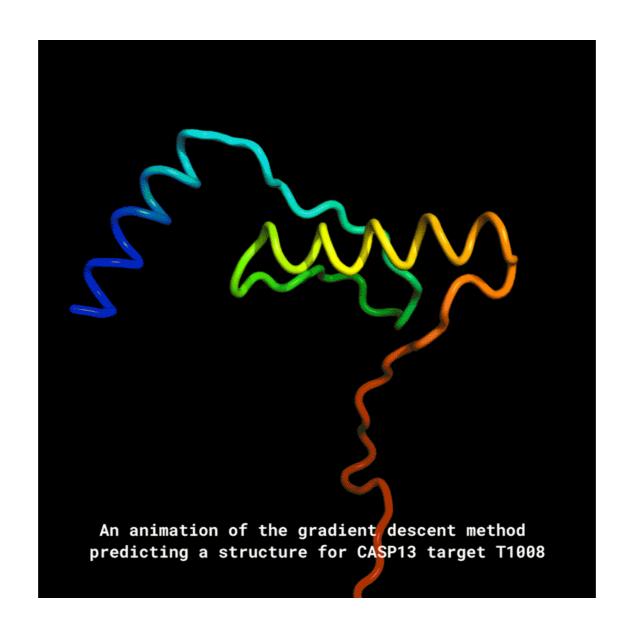














In Other Words:

"Making the checking of each, by each, through public criticism, more resource-efficient through problem formalization and automatic evaluation."



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