Intellectual property & code

olivier.teytaud@inria.fr

I have no expertice on IP; just a return on experiments.

2 contexts:

1. games (2 cases)

2. power systems

Games

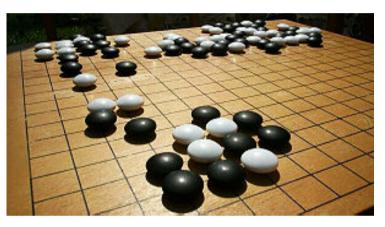
Two sub-contexts:

- Go
- Urban Rivals (internet card game)

Game of Go

MoGo, AI for playing Go

- Was quite strong
- Winner of olympiads
- Won first games against pros



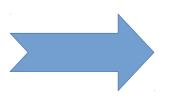


Game of Go

MoGo

- 4 developers
- 1 of them internship
 - ==> impossible to release as open source
 - ==> impossible to sell
 - ==> there were companies willing to pay for it

Failure

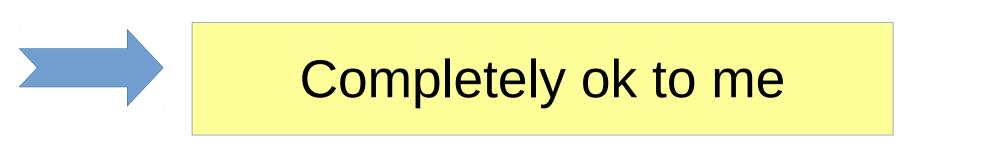


Urban Rivals



Urban Rivals

- Partially Observable ==> tricky
- Computation time = money
- Company ok for paying
 - ==> too complicated, no money
 - ==> we did it for the authorization to use/study their code



Intellectual property & code

2 contexts:

1. games

2. power systems

Energy transition debate



MAR.17 NOVEMBRE 2015 – ÉDITION DE LA MI-JOURNÉE

MEDIAPART

LE JOURNAL | INTERNATIONAL | FRANCE | ÉCONOMIE | CULTURE | ENGLISH | ESPAÑOL

CLIMAT : LE SOMMET PARIS 2015 - ENQUÊTE

Energie : le rapport caché sur une France 100% renouvelable

08 AVRIL 2015 | PAR CHRISTOPHE GUEUGNEAU ET JADE LINDGAARD

Mediapart s'est procuré le rapport commandé par l'Ademe sur une France 100 % renouvelable en 2050 : le potentiel énergétique est colossal, et ne coûterait pas beaucoup plus cher que de maintenir le nucléaire. Mais visiblement, il dérange puisque sa <u>publication a été repoussée. Nous le publions en intégralité pour</u>

Energy transition debate

Nucléaire : EDF pourrait associer des partenaires au renouvellement du parc français

ANNE FEITZ / JOURNALISTE | LE 23/10 Å 17:27, MIS Å JOUR Å 17:53



Le PDG d'EDF, Jean-Bernard Levy /Credit:NICOLAS MESSYASZ/SIPA - SIPA

1/1



A l'horizon 2050, un parc de 30 ou 40 EPR Nouveau Modèle aura été construit, imagine EDE L'électricien estime qu'il

ÉNERGIE - ENVIRONNEMENT



Le gaz et les carburants vont payer pour le solaire



Electricité : Bruxelles surveille les projets de la France

L'exécutif baisse la facture des industriels électro-intensifs



Power systems / energy transition

- Public debate is incomplete (no data, no simulation)
- Claims based on proprietary codes/studies (or no study at all...)
- It's so easy to cheat and get the numbers you want

==> we need open source / open data

Power systems

- Huge impact (economy, pollution, employment)
- Rare open data
- Public money, but no debate (Mediapart, Edf, CH)
 - ==> we need open source
 - ==> discussion in progress, Inria + Paris-Sud

Still in progress

Power systems

- Huge impact (economy, pollution, employment)
- Rare open data
- Public money, but no debate (Mediapart, Edf, CH)
 - ==> we need open source
 - ==> discussion in progress, Inria + Paris-Sud
 - ==> but we also need open data :-(

access to data: WOPS workshop (open power systems) don't believe that.

Various feedbacks on access to data - hit the power plant when it's on

- Risky, because terrorism (?)
- Risky, because financial impact (?)
- ==> terrorists don't need subtle data. Why would we do it if we are not paid
- << Please do it, because for us at XXX, we can not do it >>

Towards sharing codes / access to data simulators ?

==> towards a healthy energy transition debate



Terrorists, a simple hint:

there are many lines

scientists do!

- hit the network where

Summary of my 2 cents

- Go: we should have earnt money, we failed
- UrbanRivals: nobody earnt money and that's fine
- Power systems: nobody should earn money but not sure it's enough for having access to data :-)

I would really love it, if it was written somewhere that << if 100% of the authors are academic and want to release as open source, then it is open source >> ==> would make everything simpler Maybe also state-owned companies

This is the end

Comments, flames, jokes, are more than welcome (in particular if open source)

Nb: open data ?

Nb: culture of free data/code for strategic discussions (how power systems data/sources used as strategic arguments can be private ?).