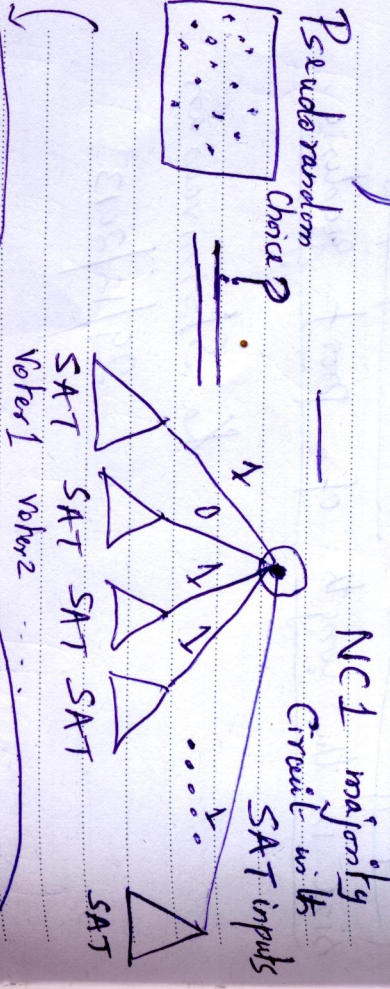


10/1/2014

After optional to do - add Apache Pig
Hive, Tez Support for astronomical datasets.
(and) HBase NoSQL support.

The minimum convex hull of all possible
random growth networks (in previous page)
cannot be of polynomial size if
 $P \neq NP$. (This intuitively implies that
minimum learning needed which is symbolized
by Random growth network implication graph
cannot be a polynomial in length of proof
predicate that is contained within minimum
convex hull.)

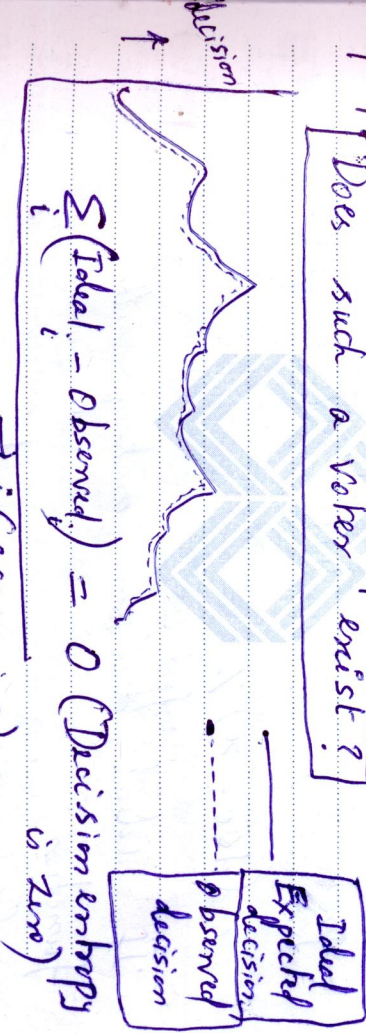


BPP or BPPNC

BPP or BPPNC

If voters are perfect, zero-error,

LHS is in P. In RHS each SAT voter
has to be satisfied which is the democracy
problem making it NP-complete. If all
voters are zero error RHS is NP-complete
since NC1 majority circuit takes inputs
from SAT voters. Thus LHS is P & RHS is in NP
if voters are zero error.
For zero-error the complexity has to be zero
the voter has to make
perfect decision in all possible scenarios -
Does such a voter exist?



Number of all possible scenarios is infinite.

So above question itself could be undecidable.
and is RE not recursive. Does that imply
 $P \neq NP$ is undecidable?

\Rightarrow if all voters are perfect $P = NP$
and question of perfect voter existence is
undecidable. Thus $P \neq NP$ is undecidable

$P \equiv NP$ is decidable.

Pseudorandom choice:

If $x\%$ of voters are imperfect, probability that elected choice is good

$$100 = [x\%] + (100 - x)\%$$

Majority Voting:

If $x\%$ of voters are imperfect, probability that elected choice is good $= (100 - x)\%$

If ideal perfect decision making is the function

$f(\text{scenario}) = \text{decision}$ and actual decision making is the function

$f(\text{scenario}) = \text{decision}$

then the integral $\int f(x) - g(x) dx = 0$

for all perfect voters.

If $x\%$ of voters are imperfect,

$$\int |f(x) - g(x)| > 0 \text{ for } x\% \text{ of voters}$$

An imperfect vote is an imperfect assignment to a Voter SAT CNF. That is voter CNFSAT is probabilistic.

Impossibility lemma: (Proof as in prior pages)

Election of perfect leader is possible iff voters are all perfect and zero-error in both pseudorandom choice and majority voting

To verify: If this is Kenneth Arrow's impossibility theorem equivalent.

Above counterfactual $P=NP$ conclusion is for the "pushing" Is perfect election of leader possible? and has (Klein) equation circuit as its basis.

Argument based on Law of Thermodynamics.

Entropy in a system is non-decreasing. Entropy is only at 0 Kelvin, which is unattainable. If non-zero entropy (disorder)

7 January
2013
Monday

S	M	T	W	T	F	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29

in a system) is thought of as source of
any error of judgment then, the rule out-
perfect judgement. Thus thermodynamics $\Rightarrow P \neq NP$

Ka Shrinivasan
10/01/2014

Both arguments below:

- 1) Implication graphs - implication is undecidable
 - 2) Perfect Viter existence is undecidable
(using P(Good) Circuits)
- lead to $P \neq NP$ undecidability in infinite case
of scenarios and in most fragments of logic.
Some fragments have decidable implications.
Both paths are independent of each other.

Above is a non-conventional non-textbook unnatural
proof approach to $P \neq NP$. Since diagonal
proofs won't work, above unnatural paths
are worth exploring.

Ka Shrinivasan
11/1/2014

S	M	T	W	T	F	S
						1
						2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

January 8
2013
Tuesday