# Word

there are a **plethora** of open research problems

SDN from the perspective of four **thrusts**:

implementation and usage of **substantive** tools

**A history that is not remembered is bound to be repeated**

no sign of **repentance**

she was found guilty of abuse of power and **coercion**

Assume that

In the **celebrated** paper from

an excellent **discourse** of the subject is presented

**Often**, when referring to a cut, a link cut is **meant**

We study algorithmic solutions to the accommodation of critical network flows with different bandwidth **criticalities (criticality)**

seems an **omnipotent** solution

consists of a set of **tailor-made** containers

in order to **span the scope of** technical challenges

It can be even **envisaged** that the development of new algorithms

Virtualization technologies often exhibits a non-linear scaling which **necessitates** an accumulation of similar traffic

Without **forfeiting** the befefits?

At this juncture

Three main field may **propel** the VNE research in the near future are identified

optimization in one part can **jeopardize** optimization in another part

calculate its resources requirements more **expediently**

China is not an importer exclusively; it is an exporter, **not just of goods but of ideas.**

Author **rebuttal** period

 your text has been **chucked** out

if you let someone **encroach** on a planned meeting or activity

 you might end up finding that the cost of the time wasted far **outstrips** any “benefit” that these sites might provide

Social media sites like Facebook are particularly **amenable** to aimless time-wasting

**Beware of time thieves, particularly those that masquerade as “productive activities”.**

but this often results in stress, lateness, and **frantic** thought and action

**It can be tempting to** pack meetings **back-to-back**

An agenda gives **clarity** of purpose to a meeting

use the time to **knock** something **off** your list

so time is wasted “**ramping** up” and “winding down”, since activities tend to fill the time **allotted** for them

Likewise, you may have career goals, such as landing a faculty position, or attaining a **coveted** fellowship

Achieving (and balancing) these goals requires careful, **meticulous** prioritization and planning.

**The cliched metaphor** that “time is money” turns out to be extremely useful for thinking about time management.

**and it can never be replenished or replaced**

it is impossible to provide a comprehensive **compendium** of time-management tactics in a single post

A **distinguishing** feature of a research career

Just as **it’s much easier** to appreciate a truly fine wine, dish, or performance after having seen **mediocre** offerings

even if you don’t always **resonate with** them

You don’t necessarily have to “**jump on the bandwagon**”

 I’ve spent **a fair bit of effort** developing taste in music

The conference program will include **plenary** talks, regular papers, experience reports, an industrial track, a student forum

it is being **rolled out** in data center networks as a means to provide bandwidth guarantees to cloud applications

**For all intents and purposes**（从每一层意义上说，即实际上） WeChat is your phone

there was one data point that **jumped off the page**（惹眼） regarding（关于） iPhone sales

This history **revolves around** four distinct aspects

This is intended to be a brief, **necessarily cursory** and incomplete history

We have not discussed how to design a survivable network

**from scratch**

routing systems more manageable, less complex and

be **accommodative** of new service needs

we will use the same tool to check the **conformance** of papers

something we all **take for granted** and use everyday

which **hamper** innovation and addition of new features and services

**proliferate** in current networks

the number of middleboxes is already **on par with** the number of routers

in current networks

a control program can automatically react to **spurious** changes of the network state

The distribution abstraction should shield SDN applications

from the **vagaries** of distributed state

To identify the different elements of an SDN as **unequivocally**

as possible

a crucial

approach for ensuring configuration and communication

compatibility and **interoperability** among different data

and control plane devices

only

a subset of those matching fields are **mandatory** to be

compliant to a given protocol version

**In tandem,** operation in

reactive mode may still be used when traffic bursts are

detected

The **forfeiture** of data and revenue due to the loss of even a single

fiber is **staggering**

**quench** the ever-increasing thirst for bandwidth

 pay **homage** to the dead man

What is the **canonical** response function for the family?

that is **cosmetically** similar to the density of a Gaussian distribution,

but outputting a **sporadic** looking decision boundary.

the *k*-**harmonic** means algorithm due to Zhang and colleagues

We describe each algorithm in a **unified** framework

Each center defines a cluster with a central point and perhaps a **covariance** matrix

have **engendered** a lot of success in OR practice

A modified implementation of the **stingy** heuristic

infeasible regions by **oscillating** around feasibility

Has the **advent** of metaheuristics advanced the state-of-the-art significantly

Using **nomenclature** from tabu search

seminars and **colloquia**

in reverse **chronological** order

based on the group-theoretic treatment of **elliptic** curves

we cannot **stretch**, **tear**, or **squeeze** the square in any way

The **salient** point here is that two different compositions of symmetries

but it’s not clear which (if any) stickers are **superfluous**

clear up some silly **ambiguities** in the definition

operation with **juxtaposition**

In the formal **parlance**

at least in some **coarse** way

**For a slightly more detailed exercise**

the **avid** reader of this blog may recognize the notation

This is a **gem** of **elegance** that shows the power of viewing mathematics

Let’s **dissect** this definition a little.

We call this map the **canonical** projection of G

Then we try to **refute** this belief by finding additional structure

has claimed an **astounding** theorem

which is why everyone is **atwitter**

then the question about GI is **moot**

To the **layperson**, the polynomial hierarchy is **abstruse** complexity theoretic technical hoo-hah

So people are excited because it’s **tantalizing**

Without loss of generality suppose

 feel free to point out any **egregious** holes in my understanding

one’s first **foray** into advanced mathematics

which is good enough for most **engineering situations**

As a rule of **thumb**

**Provably** good on-line, distributed schedulers exist

we shall **subscript** by P.

We can **gauge** the theoretical efficiency of a multithreaded algorithm by using two metrics

the multithreaded computation’s instructions were **interleaved** to produce a linear order

avoid the **anomaly** that would occur if x and y were summed before x was computed

we can **glean** some important insights about deadlock

so let us **dissect** it carefully

China called the ruling "ill-founded" and says **it will not be bound by it**.

y is the **ephemeral** port that uniquely identifies the client process

we will treat TCP/IP as a single **monolithic** protocol

Mr Jiang is seen **reprimanding** eight bank employees on stage

publicly **spanked** for poor performance during a training session, **sparking** **outrage**

so let us **dissect** it carefully

**Reap** multiple zombie children

**precludes** slow clients from **monopolizing** the server

**soaking up** spare CPU cycles as they become available

deferring **coalescing** to a concurrent “coalescing” flow that runs at a lower priority

Synchronizing Threads with **Semaphores**

 it will neither take part in the **tribunal** nor accept the authority of its ruling

Battle of **propaganda**

let a few facts get in the way of the official **narrative**

any longer **ironclad** proof of anything

run stochastic gradient ascent on a randomly **shuffled** copy of the training set.)

we first **digress** briefly

Despite the **bleak** picture that this paints for ICA on Gaussian data

the density is **rotationally** symmetric.

Note that the **contours** of the density of the standard normal distribution

If the canary has been **trampled**

Variety formed a gross **preponderance** of buffer overflow attacks

**introspects** the CPU stack to detect buffer overflows

Purify also was **laborious** to construct

Since slowdown is **proportionate** to pointer usage

Thus some tools and techniques have evolved to help **novice** developers write programs

To err is human, but to really **foul up** requires a computer

Some **nuances** on this Method

The overall goal of a buffer overflow attack is to **subvert** the function of a privileged program

three were essentially social engineering attacks that **snooped** user **credentials**

the code must handle arbitrarily invalid or **malevolent** values gracefully

Working with a multi-**variate** Gaussian distribution can be **tricky** and **daunting** at times

is one of the most “**versatile**”distributions in probability theory

one of the most important rule is the ***linearity*** *of expectations*

Sometimes we will also speak about ***cumulative*** *distribution function*

there is a choice in the order we **unravel** the random variables when applying the Chain Rule

**From here onwards**, we will talk mostly about probability with respect to random variables.

**In a sense**, random variables allow us to **abstract** away from the formal notion of event Space

let it handle many programs that are completely **intractable** **otherwise**

it is rather **cumbersome** to represent this as a matrix

but there a few **caveats** to keep in mind

Despite the fact that all the actual calculus we use is relatively **trivial**

The **underlying** objective and algorithm **seamlessly** generalize the classic k-means approach

an input graph is **coarsened** by merging nodes level by level

commending his post-presidential **philanthropy**

genuine **empathy** for human beings

Using a linear algebraic **formulation**

The traditional graph partitioning problem seeks k **pairwise** disjoint clusters

**Progenitor** to “Ant Colony System,” later discussed

Reinforcement Learning **reminiscence**

Ants work **concurrently** and independently

**Versatility**

ants search at the **vicinity** of the best tour so far

(this is the **intercept term**),

while gradient descent can be **susceptible** to local minima in general

J is a convex **quadratic** function.

The ellipses shown above are the **contours** of a quadratic function.

coloured hair is inspired by the **anime** characters

the parameters θ will keep **oscillating** around the minimum of J(θ);

To enable us to do this without having to write **reams** of algebra

Equations (4) can be **derived** using the **adjoint** representation of the inverse of a matrix.

Probabilistic **interpretation**

if there are some features very **pertinent** to predicting housing price,

**stringent** building codes mean that they rarely cause significant damage.

 Japan's **seismology** office said

It is through bitter experience that Japan has learnt the strategies to **mitigate** damage

Initialize cluster **centroids**

Images **courtesy** Michael Jordan

Thus, J must **monotonically** decrease

The **distortion** function J is a non-convex function

We now **digress** to talk briefly about an algorithm that’s of some historical interest

this “**perceptron**” was argued to be a rough model for how individual neurons in the brain work.

A “push-right” method for mining **condensed** frequent pattern

correspondent John Sudworth is **reprimanded**

faithfully fulfil its obligation for non-**proliferation** and strive for global **denuclearisation**

its sovereignty is **encroached** upon by any aggressive hostile forces with **nukes**

**Familiarity** with the basic probability theory

Regrades are intended to **remedy** grading errors

**in light of** the deduction you received

a natural **desideratum** is to try to \_nd a decision boundary

we still don't have any **of-the-shelf** software

we can solve the dual problem in **lieu** of the primal problem.

(A function f can also be convex without being **differentiable**, but we

won't need those more general definitions of **convexity** here.)

KKT dual **complementarity** condition will also give us our convergence test

**mitigate** the overhead of additional route discoveries

**on-demand** routing protocols

The non-negative **orthant**

where we used the triangle inequality and the positive **homogeneity** of norms.

Affine subspaces and **polyhedra**.

the meaning must be determined **contextually**

rather than **componentwise** inequality.

Again **analogous** to both the definition and first order conditions for convexity

We won’t worry about such **technicalities** here

the boring math and **formalisms** behind convex optimization

which augment the standard **conjugate** gradient (CG) algorithm for solving linear least squares systems with a line-search

**albeit** rarely considered together in a unified manner as we do

infeasible points are “**carved away**”

To **ameliorate** this

convex optimization have been **well-tuned** to handle different specific types of optimization problems

provide a rapid way to **prototype** your idea

unless the equations are somehow **degenerate**

**dissect** matrix multiplication to such a large degree

Notice that if a data point is **equidistant** from every cluster

**Differentiate** each data point’s contribution to the objective function

mployers to get more **leeway** to negotiate holidays and special leave

Instantiated

underscores

arbitrary

syntax

precedence

Parenthese

conceptually

successive

logistics

It turns out that tardigrades have a host of **tricks up their sleeves**

with **ferocious** claws resembling those of great bears

This paper **unravels** the SCA problem structure using a matrix-based model

even if the input data is chosen by an **adversary**

We can **turn** this idea **around** and ask questions

Such famous problems as the **tautology** problem

Problems akin to subgraph isomorphism have also arisen in research

Problems **akin** to subgraph isomorphism have also arisen in research on the recognition of distorted shapes

Computer scientists are **abuzz** over a fast new algorithm

with the **proviso** that an isomorphism is not required to preserve the labels

# standard replace word

1. individuals, characters, folks 替换 **people , persons.**

2. positive, favorable, rosy, promising, perfect, pleasurable, excellent, outstanding, superior 替换 **good.**

3. dreadful, unfavorable, poor, adverse, ill 替换 **bad**（如果bad做表语，可以有be less impressive替换。）

4. an army of, an ocean of, a sea of, a multitude of, a host of, many, if not most 替换 **many**.

注：用many, if not most 一定要小心，many后一定要有词。

5. a slice of, quiet a few 替换 **some**.

6. harbor the idea that, take the attitude that, hold the view that, it is widely shared that, it is universally acknowledged that 替换 **think**（因为是书面语，所以要加that）。

7. affair, business, matter 替换 **thing**.

8. shared 替换 **common** .

9. reap huge fruits 替换 **get many benefits**.

10. for my part ,from my own perspective 替换 **in my opinion**.

11. Increasing(ly), growing 替换 more and more（注意没有growingly这种形式。所以当修饰名词时用increasing/growing修饰形容词，副词用increasingly.）

12. little if anything或little or nothing 替换 **hardly**.

13. beneficial, rewarding 替换 **helpful**.

14. shopper, client, consumer, purchaser 替换 **customer**.

15. overwhelmingly, exceedingly, extremely, intensely 替换 **very**.

16. hardly necessary, hardly inevitable… 替换 **unnecessary, avoidable**.

17. indispensable 替换 **necessary**.

18. sth appeals to sb, sth exerts a tremendous fascination on sb 替换**sb take interest in / sb. be interested in**.

19. capture one's attention 替换 **attract one's attention**.

20. facet, demension, sphere 替换 **aspet**.

21. be indicative of, be suggestive of, be fearful of 替换 **indicate,suggest, fear**.

22. give rise to, lead to, result in, trigger 替换 **cause**.

23. There are several reasons behind sth 替换 **…reasons for sth**.

24. desire 替换 **want**.

25. pour attention into 替换**pay attention to**.

26. bear in mind that 替换 **remember**.

27. enjoy, possess 替换 **have**（注意process是过程的意思）。

28. interaction 替换 **communication**.

**29. frown on sth** 替换 **be against , disagree with sth** .

30. to name only a few, as an example 替换 **for example, for instance**.

31. next to / virtually impossible 替换 **nearly / almost impossible**.

32. regarding / concerning 替换 **about**.

33. crucial /paramount 替换 **important**.

34. 第一（in the first place/the first and foremost）；第二（there is one more point, I should touch on, that…）；第三（the last but not the least）.

35. assiduous 替换 **hard-working**

36. arduous 替换 **difficult**

37. underdeveloped / financially-challenged 替换**poo**r（因为poor通常含有贬义）

38. demonstrate / manifest 替换 **show**

39. invariably 替换 **always**

40. perilous / hazardous替换 **dangerous**（写社会类作文时常用，说什么社会现象是不好的，有害的）

41. formidable 替换 **difficult**

42. quintessential 替换 **typical**（举例时常用，例如：a quintessential example should be cited that=for example; for instance）

43. distinguished 替换**famous**

44. feasible 替换**possible**

45. consequently, accordingly替换**so**

# Syntax grammatical summary

https://mp.weixin.qq.com/s/dTN41hxwDnTpSGn8zh2F\_g

1语法grammar  
句法 syntax词法 morphology句子 sentence从句 clause词组 phrase  
2从句clause  
从属句 subordinate clause  
  
并列句 coordinate clause  
  
名词从句 nominal clause  
  
定语从句 attributive clause  
  
状语从句 adverbial clause  
  
宾语从句 object clause  
  
主语从句 subject clause  
  
同位语从句 appositive clause  
  
时间状语从句 adverbial clause of time  
  
地点状语从句 adverbial clause of place  
  
方式状语从句 adverbial clause of manner  
  
让步状语从句adverbial clause of concession  
  
原因状语从句adverbial clause of cause  
  
结果状语从句adverbial clause of result  
  
目的状语从句adverbial clause of purpose  
  
条件状语从句adverbial clause of condition  
  
真实条件状语从句adverbial clause of real condition  
  
非真实条件状语从句adverbial clause of unreal condition  
  
含蓄条件句adverbial clause of implied condition  
  
错综条件句adverbial clause of mixed condition  
  
3句子sentence  
简单句 simple sentence  
  
并列句 compound sentence  
  
复合句 complex sentence  
  
并列复合句 compound complex sentence  
  
陈述句 declarative sentence  
  
疑问句 interrogative sentence  
  
一般疑问句 general question  
  
特殊疑问句 special question  
  
选择疑问句 alternative question  
  
附加疑问句 tag question  
  
反义疑问句 disjunctive question  
  
修辞疑问句 rhetorical question  
  
感叹疑问句 exclamatory question  
  
存在句 existential sentence  
  
肯定句 positive sentence  
  
4基本句型basic sentence pattern  
否定句 negative sentence  
  
祈使句 imperative sentence  
  
省略句 elliptical sentence  
  
感叹句 exclamatory sentence  
  
5句子成分members of sentences  
主语 subject  
  
谓语 predicate  
  
宾语 object  
  
双宾语 dual object  
  
直接宾语 direct object  
  
间接宾语 indirect object  
  
复合宾语 complex object  
  
同源宾语 cognate object  
  
6补语complement  
主补 subject complement  
  
宾补 object complement  
  
表语 predicative  
  
定语 attribute  
  
同位语 appositive  
  
状语 adverbial  
  
7句法关系syntactic relationship  
并列 coordinate  
  
从属 subordination  
  
修饰 modification  
  
前置修饰 pre-modification  
  
后置修饰 post-modification  
  
8限制restriction  
双重限制 double-restriction  
  
非限制 non-restriction  
  
9数number  
单数形式 singular form复数形式 plural form规则形式 regular form不规则形式 irregular form  
10格 case  
普通格 common case所有格 possessive case主格 nominative case宾格 objective case  
11性 gender  
阳性 masculine阴性 feminine通性 common中性 neuter  
12人称 person  
第一人称 first person第二人称 second person第三人称 third person  
13时态 tense  
过去将来时 past future tense过去将来进行时past future continuous tense过去将来完成时past future perfect tense一般现在时 present simple tense一般过去时 past simple tense一般将来时 future simple tense现在完成时 present perfect tense过去完成时 past perfect tense将来完成时 future perfect tense现在进行时 present continuous tense过去进行时 past continuous tense将来进行时 future continuous tense过去将来进行时past future continuous tense现在完成进行时present perfect continuous tense过去完成进行时past perfect continuous tense  
14语态 voice  
主动语态 active voice被动语态 passive voice  
15语气 mood  
陈述语气 indicative mood祈使语气 imperative mood虚拟语气 subjunctive mood  
16否定 negation  
否定范围 scope of negation全部否定 full negation局部否定 partial negation转移否定 shift of negation  
17语序 order  
自然语序 natural order倒装语序 inversion全部倒装 full inversion部分倒装 partial inversion直接引语 direct speech间接引语 indirect speech自由直接引语 free direct speech自由间接引语 free indirect speech  
18一致 agreement  
主谓一致 subject-predicate agreement语法一致 grammatical agreement概念一致 notional agreement就近原则 principle of proximity  
19强调 emphasis  
重复 repetition语音 pronunciation语调 tone升调 rising tone降调 falling tone降升调 falling-rising tone  
20文体 style  
结构 structure层次 rank正式文体 formal非正式文体 informal口语 spoken/oral English套语 formulistic expression  
21用法 usage  
感情色彩 emotional coloring褒义 commendatory贬义 derogatory幽默 humorous讽刺 sarcastic挖苦 ironic英国英语 British English美国英语 American English  
22词类 part of speech  
单词 word实词 notional word虚词 structural word单纯词 simple word派生词 derivative复合词 compound  
23词性 part of speech  
名词 noun专有名词 proper noun普通名词 common noun可数名词 countable noun不可数名词 uncountable noun抽象名词 abstract noun具体名词 concrete noun物质名词 material noun集体名词 collective noun个体名词 individual noun介词 preposition连词 conjunction动词 verb主动词 main verb及物动词 transitive verb不及物动词 intransitive verb系动词 link verb助动词 auxiliary verb情态动词 modal verb规则动词 regular verb不规则动词 irregular verb短语动词 phrasal verb限定动词 finite verb非限定动词 infinite verb使役动词 causative verb感官动词 verb of senses动态动词 event verb静态动词 state verb感叹词 exclamation形容词 adjective  
24原级 positive  
比较级 comparative最高级 superalative  
25副词 adverb  
方式副词 adverb of manner程度副词 adverb of degree时间副词 adverb of time地点副词 adverb of place修饰性副词 adjunct连接性副词 conjunct疑问副词 interogative adverb关系副词 relative adverb  
26代词 pronoun  
人称代词 personal pronoun物主代词 possesive pronoun反身代词 reflexive pronoun相互代词 reciprocal pronoun指示代词 demonstrative pronoun疑问代词 interrogative pronoun关系代词 relative pronoun不定代词 indefinite pronoun物主代词 possecive pronoun名词性物主代词nominal possesive prnoun形容词性物主代词adjectival possesive pronoun  
27冠词 article  
定冠词 definite article不定冠词 indefinite article  
28数词 numeral  
基数词 cardinal numeral序数词 ordinal numeral分数词 fractional numeral  
29形式 form  
单数形式 singular form复数形式 plural form限定动词 finite verb form非限定动词 non-finite verb form原形 base form

# Like和as

使用like的时候后面通常没有动词

My cousin looks like Batman.   
My neighbor yelled like a banshee.

It's as if my cousin thinks he is Batman.   
My neighbor yelled as though he had seen a banshee.

# Dictory

The Oxford Advanced Learner’s Dictionary (<http://www.oxfordlearnersdictionaries.com/>)