Technologies for E-Commerce

CAN302

Department of Communications and Networking Xi'an Jiaotong-Liverpool University (XJTLU)

Week12 - Legal, ethical and social issues



Trolley Problem



- **Jeremy Bentham** 1748 1832
- Utilitarianism is a family of normative ethical theories that prescribe actions that maximize happiness and well-being for all affected individuals.

Deontological ethics or deontology is the normative ethical position that judges the morality of an action based on the action's adherence to a rule or rules.

Trolley Problem



- Social contract theory
- Virtue theory
- 无为
- 齐身修家治国平天下

https://www.bilibili.com/video/BV13a411b7Ry

What is the law?



- Law is a system of rules created and **enforced** through social or governmental institutions to regulate behavior, with its precise definition a matter of longstanding debate.
- Law has been variously described as a science and the art of justice.

Legal and ethic



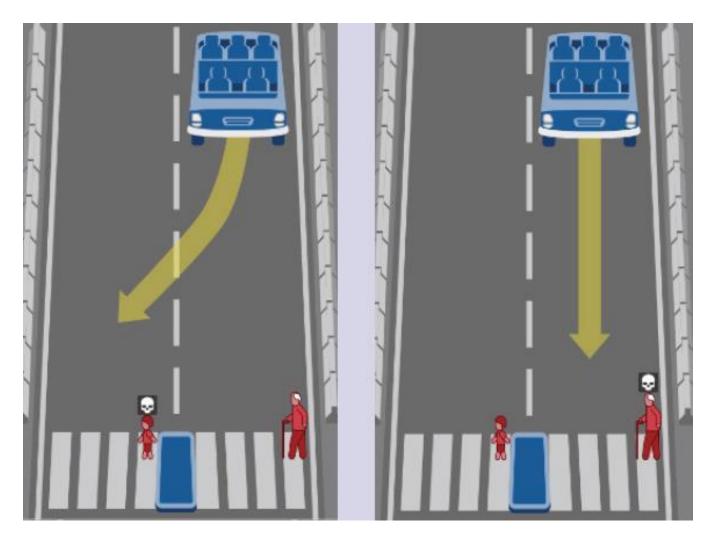


难显菩萨心肠!

六四道魔

- Both ethics and laws are found in virtually all spheres of society. They govern actions of individuals around the world on a daily basis.
- Laws **enforce** the behaviors we are expected to follow.
- While ethics **suggest** what we ought to follow.

Legal and ethic



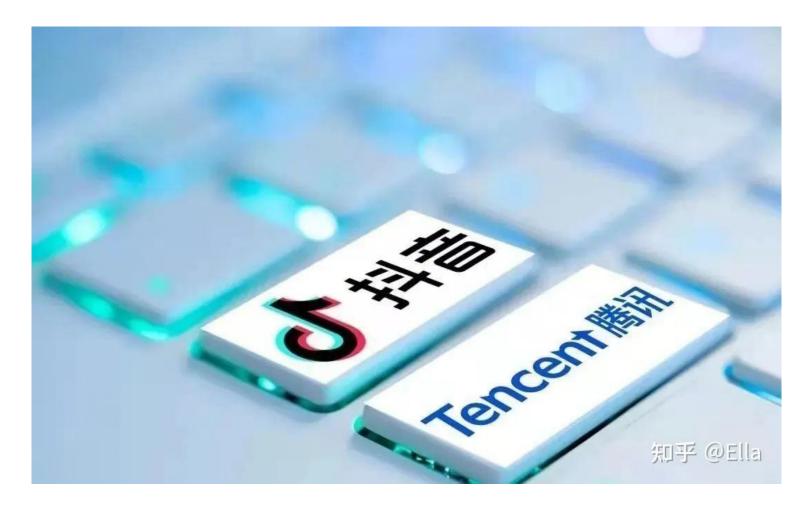
• AI algorithm must make the choice!

Battle between Giants



- When the growth is ending, it always the time for a WAR!
- Round I : PC age

Battle between Giants



- When the growth is ending, it always the time for a WAR!
- Round II : mobile age

Do not be evil





- Do unto others as you would have them do unto you. A Gentleman/woman!
- Do you think I would break the law? Absolutely not! I'm very lawful! A Rascal!

Do not be evil





They are all Rascals!

Do not be evil



Do no be evil

18:27

 \times

关于下架"滴滴出行"App的通报

网信中国 昨天

○ CAC 点击 "网信中国" 关注官方账号

根据举报,经检测核实,"滴滴出 行"App存在严重违法违规收集使用个人 信息问题。国家互联网信息办公室依据

《中华人民共和国网络安全法》相关规定,通知应用商店下架"滴滴出行"App,要求滴滴出行科技有限公司严格按照法律要求,参照国家有关标准,认真整改存在的问题,切实保障广大用户个人信息安全。

特此通报。

国家互联网信息办公室 2021年7月4日



Do no be evil





Some laws in Europe and UK

- 1. Getting Europe ready for the digital age: updates to the proposed Digital Services Act
- 2. Getting Europe ready for the digital age: updates to the proposed Digital Market Act
- 3. UK's New Digital Task Force targets Big Tech
- 4. Upcoming EU legislation will address AI, robots, and machine learning and liability issues
- 5. Geo-blocking continues to be a key area of development and enforcement in the EU
- 6. EU regulation of Online Intermediaries begin to takes shape
- 7. Digital consumer law reform in the UK
- 8. European Electronic Communications Code: Delayed implementation extends uncertainty for providers
- 9. UK & German Governments Respond on Online Harms
- 10. Digital Copyright: New (case) law

Some laws in China

- 法律
- 网络安全法
- 数据安全法
- 个人信息保护法
- 电子商务法
- 电子签名法
- 全国人大常委会关于加强网络信息保护的决定
- 全国人大常委会关于维护互联网安全的决定

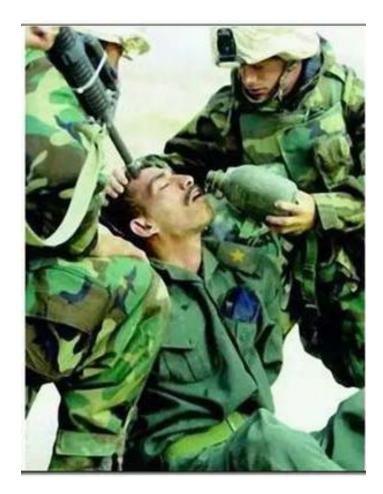
法规

- 互联网信息服务管理办法
- 互联网上网服务营业场所管理条例
- 信息网络传播权保护条例
- 计算机信息网络国际联网安全保护管理办法
- 计算机信息系统安全保护条例
- 计算机软件保护条例
- 电信条例
- 网络数据安全管理条例
- 关键信息基础设施安全保护条例

And many more

The importance of evidences



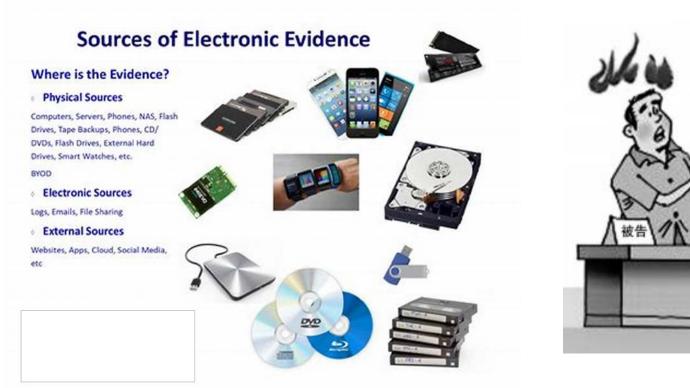




- Truth in the court may not be the truth in the life
- How to let the court believe your evidences?

https://m.sohu.com/a/334229522_100114073

Digital evidence



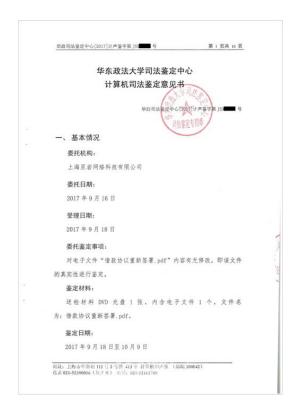


- Digital evidence is fragile and
- can be altered, damaged, or destroyed by improper handling or examination.

Judicial Expertise







中华人民共和国司法部监制

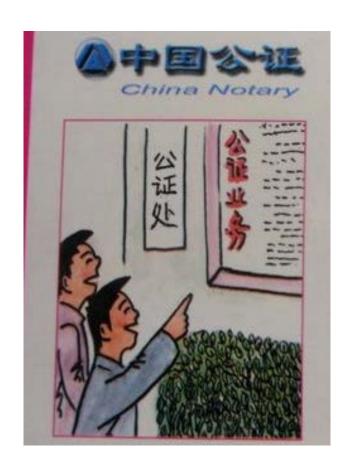
- Judicial Expertise center is a lab with the judicial permission
- Expert Report by Judicial Expertise can increase the creditable
- Cannot work for the disappeared evidence



- Let witnesses to prove the data is true
- Store the data in blockchain

The notarial institute





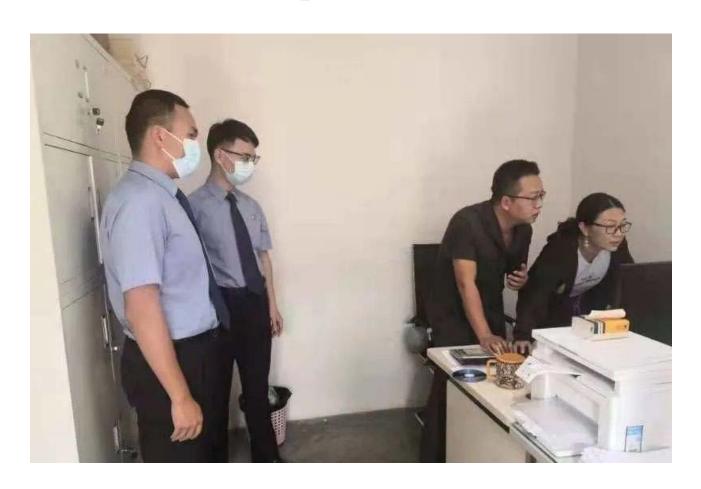
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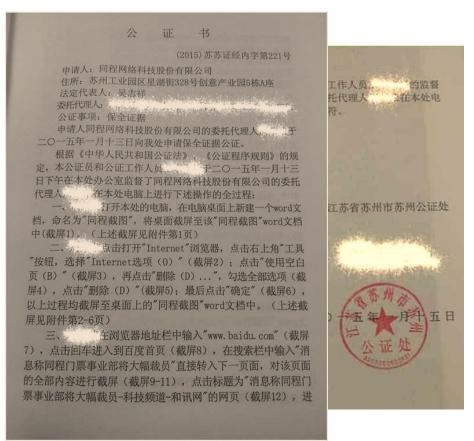
公 证 书

中华人民共和国广东省深圳市前海公证处

- Notarial officers are special witnesses
- Notarial report have a strong creditable by the law

Notarial preservation of evidence





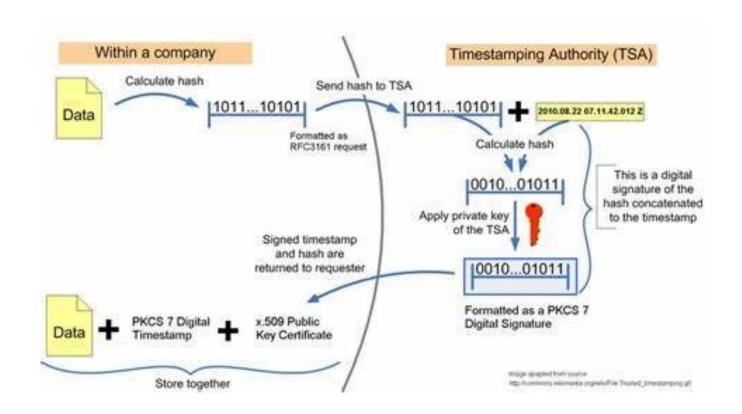
- Full process under surveillance
- Using the computer and network provided by the notarial institute
- Reduce the unsure factors

Notarial preservation of evidence





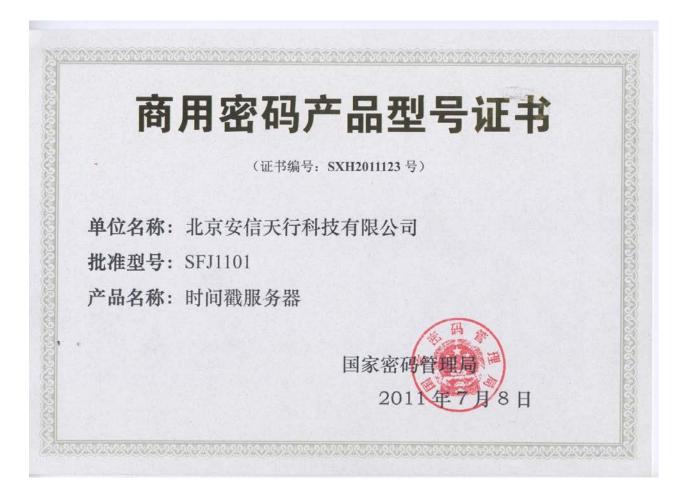
- Manually service cannot satisfy the 7x24 hours demands
- For example, living broadcast of European football games



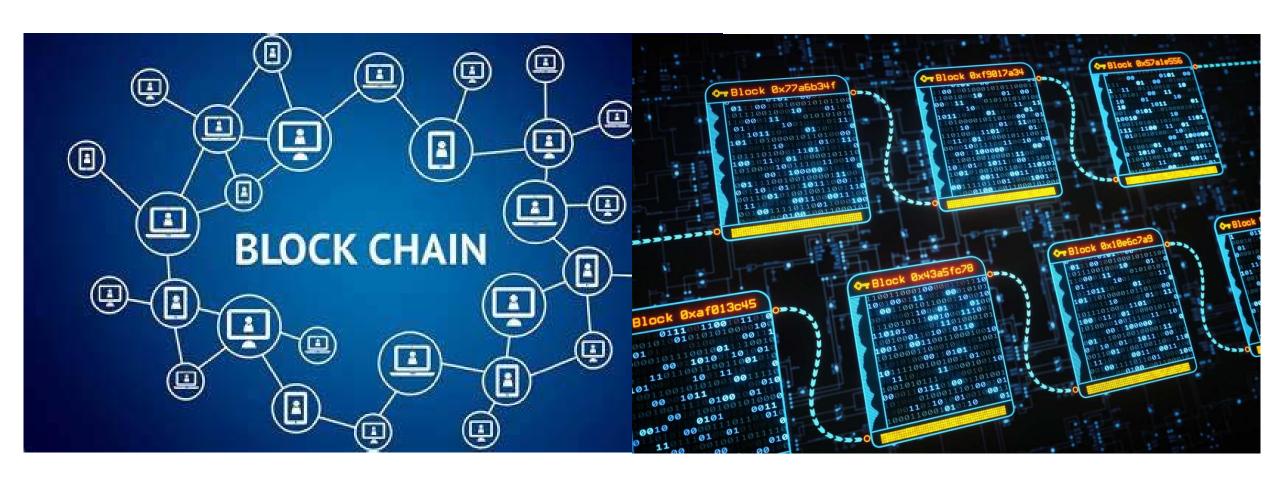


TSA should be the authorized organization





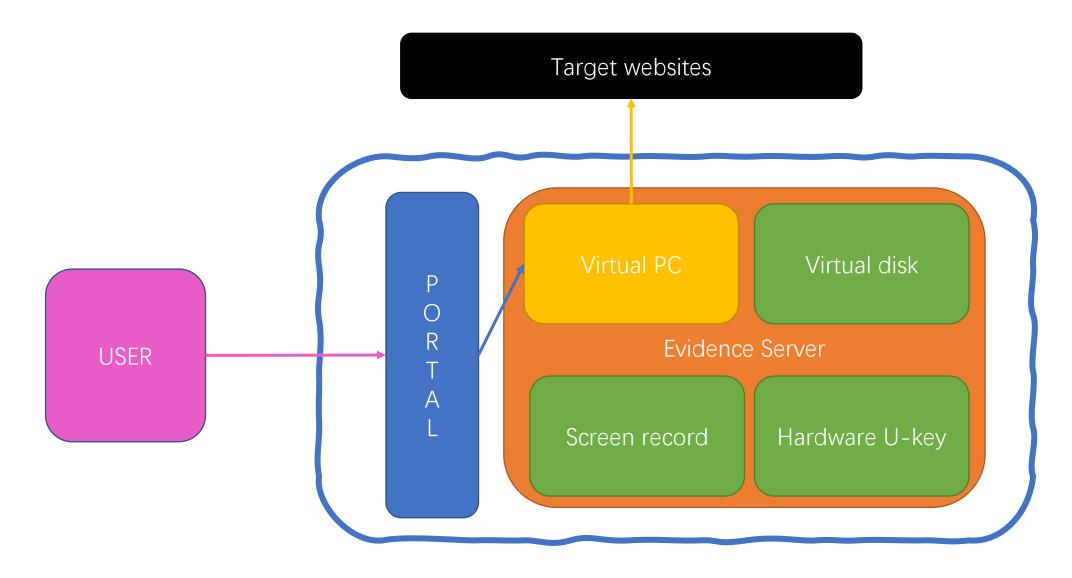
- TSA servers' certificate
- The "official time" for the birth of evidence



- Blockchain is a hot technology. For Preservation, its function is similar to TSA
- If one organization hold the chain, the credit cannot beyond the credit of that organization



Special cloud for preservation purpose



• The notarial cloud for preservation purpose