

ISC 2019 第七届互联网安全大会

严峻挑战下网络安全技术的应用和发展

惠特菲尔德·迪菲

2015年图灵奖得主

小鹅助理



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门票



惠特菲尔德·迪菲
Whitfield Diffie

2015年图灵奖得主
Winner of the 2015 Turing Prize



Development and Application of Cybersecurity Technology in a Challenging Context

Whitfield Diffie

Chief Scientist Cryptic Labs



Origins of Cybersecurity

- Communication Security
- Security of shared computers
- Signals Intelligence
- Espionage and covert action
- Electronic Warfare
- Economic warfare

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**Cybersecurity and cyberwarfare unify most of the
hostile interstate actions that go on in “peacetime.”**

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Signals Intelligence (SIGINT)

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All intelligence derived from the study of radio transmissions and other communications

(ASA September 1946)

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Rise of SIGINT World War I ==> RADIO

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- Interception
- Direction Finding
- Traffic Analysis
- Cryptanalysis

The rise of intelligence is the rise of Sigint David Kahn





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**For seventy years Sigint listened to its radios
and kept its head down.**

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The Essence of Security

- Recognition of those you know
- Introduction to those you don't know
- Provable recognition (signature)
- Private conversation

Protects your control of your system.

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What Drives Cybersecurity?

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Like every other field of engineering, cybersecurity responds to the requirements by using the available tools, driven by the imaginations of its practitioners.

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The fighting model

- Basic security problems remain unsolved
- Dynamic anti-malware filters
- Retaliation by various techniques
- Attempting deterrence

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What is needed?

- Major improvement in programming
- Broad application of hardware to security.
- Change in concept of liability

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Challenging Environment?

The “powers that be” — nations and, more important, companies — say they want cybersecurity but really they don’t.

Neither nations nor companies want computer users to have the freedom they would enjoy if computers really were secure.



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谢谢!

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