

CYBERWAR



Here at the beginning

A search for models

Arguments over the fundamentals

A very big basket

Analogies and their Discontents



A very useful tool But:

◆ They can limit thought, not enhance understanding

Unknown. (December 7, 1941). The USS Arizona burning after the Japanese attack. [Online Image]. Retrieved April 2021 from https://commons.wikimedia.org/wiki/File:The_USS_Arizona_(BB-39)_burning_after_the_Japanese_attack_on_Pearl_Harbor_-_NARA_195617_-_Edit.jpg

Analogies and their Discontents

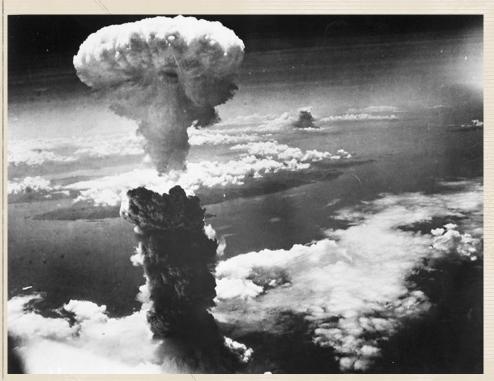


A very useful tool But:

◆ The underlying metaphor may be flawed or inappropriate

Unknown. (December 7, 1941). The USS Arizona burning after the Japanese attack. [Online Image]. Retrieved April 2021 from https://commons.wikimedia.org/wiki/File:The_USS_Arizona_(BB-39)_burning_after_the_Japanese_attack_on_Pearl_Harbor_-_NARA_195617_-_Edit.jpg

THE NUCLEAR ANALOGY



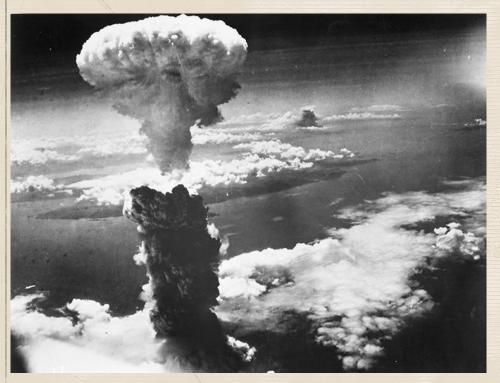
An attractive model

But

- Deterrence
- Attribution
- ◆ Cost

USAAF. (August 1945). Atomic Bombing of Nagasaki. [Online Image]. Retrieved November 2017 from https://thebulletin.org/multimedia/the-troubled-nagasaki-bombing-mission/

THE NUCLEAR ANALOGY



Non-proliferation

Perishability

Useful primarily to accentuate the differences

USAAF. (August 1945). Atomic Bombing of Nagasaki. [Online Image]. Retrieved November 2017 from https://thebulletin.org/multimedia/the-troubled-nagasaki-bombing-mission/

THE GUERRILLA WAR ANALOGY



Wither the people?

A war of networks

The Tao of the guerrilla

Safe harbors

on_the_bridge.jpg commons.wikimedia.org/wiki/File:Officers

THE SUBMARINE ANALOGY



The happy time

A familiar concern

Sufficient, not masterful

a.org/wiki/File:B-24D%27s_fly_over_Polesti_durin

THE AIR WAR ANALOGY



The theoretical parallels

The same hard road?

THE RAILROAD ANALOGY



Bundesarchiv, Bild 148-1994-022-19A Foto: Tellgmann, Oscar I August 1914 The early historiography

A brief history

The key instabilities

The wasting German advantage

O. Tellgmann. (August 1914). "Truppentransport, August 1914." [Online Image]. Retrieved October 15, 2018 from https://commons.wikimedia.org/wiki/File:Bundesarchiv_Bild_146-1994-022-19A,_Mobilmachung,_Truppentransport_mit_der_Bahn.jpg

THE RAILROAD ANALOGY



The correspondences

Compressive technologies

O. Tellgmann. (August 1914). "Truppentransport, August 1914." [Online Image]. Retrieved October 15, 2018 from https://commons.wikimedia.org/wiki/File:Bundesarchiv_Bild_146-1994-022-19A, Mobilmachung, Truppentransport_mit_der_Bahn.jpg

THE RAILROAD ANALOGY



Important differences

The inscrutability of cyberpower

O. Tellgmann. (August 1914). "Truppentransport, August 1914." [Online Image]. Retrieved October 15, 2018 from https://commons.wikimedia.org/wiki/File:Bundesarchiv_Bild_146-1994-022-19A,_Mobilmachung,_Truppentransport_mit_der_Bahn.jpg

THE SECURITY DILEMMA



S. Kubrick. (1964). Dr. Strangelove. [Online Image] Retrieved November 27, 2018 from https://www.theverge.com/2014/1/24/5340768/the-disturbing-truth-of-dr-strangelove

The Melian model

A well-known dilemma

A Cold War example

CYBERWAR BLUES



The fiction

The reality

Attrition in cyberspace

The plasticity of posture

CYBERWAR BLUES



The problem with intelligence

Not attacking, just camping

The problem with fear

CYBERWAR BLUES



The perils and promise of asymmetry

The mushrooming infosecurity crisis

Shared hardware, unbalanced vulnerabilities

REFERENCES

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