

HYBRIDI-VAIKUTTAMISESTA

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Chief Information Security Officer

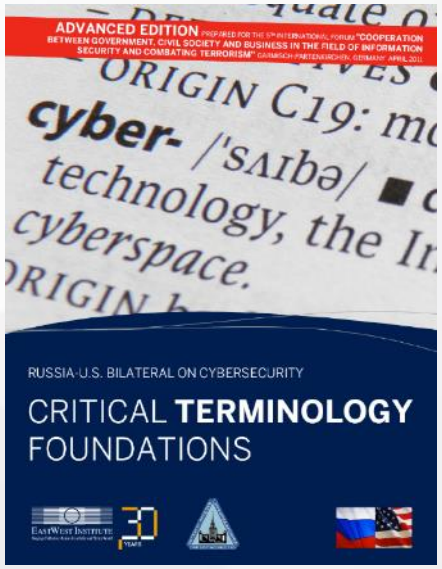
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KONNOTAATIOT JA LEIRIT

“Cyber Security”



“Security of ICTs”



https://www.files.ethz.ch/isn/178418/terminology2.pdf

“Information Security”





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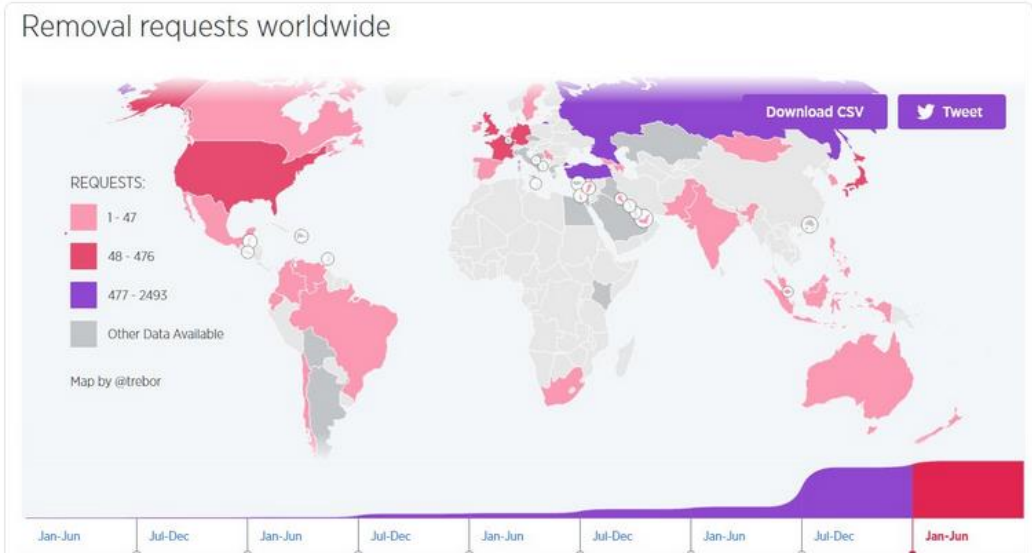
Joined September 2009

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9% France
3% UK
2% US
1% Japan

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- Kyberturvallisuus vs. tietoturvallisuus
- Kyberturvallisuus vs. kyberpuolustus
- Operaatioturvallisuus

- Hybridivaikuttaminen

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KYBERVAKOILU

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THE DUKES

7 years of Russian cyberespionage

NANHAISHU

RATing the South China Sea



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GOOD NEWS!
You are NOT a target..

(Provided that you are not
a military or a government agency,
a contractor, or a subcontractor to government,
telecommunications provider, a high-tech company,
involved in science, research, technology and innovation,
provider of dual-use technology, a cyber security company,
finance, legal, retail or energy, company,
popular or highly visible, operate in "country of interest",
hire staff from a target country, know people, happen to visit certain locations,
get targeted by change or by mistake....)

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KIISTETTÄVÄÄ JA HALPAA

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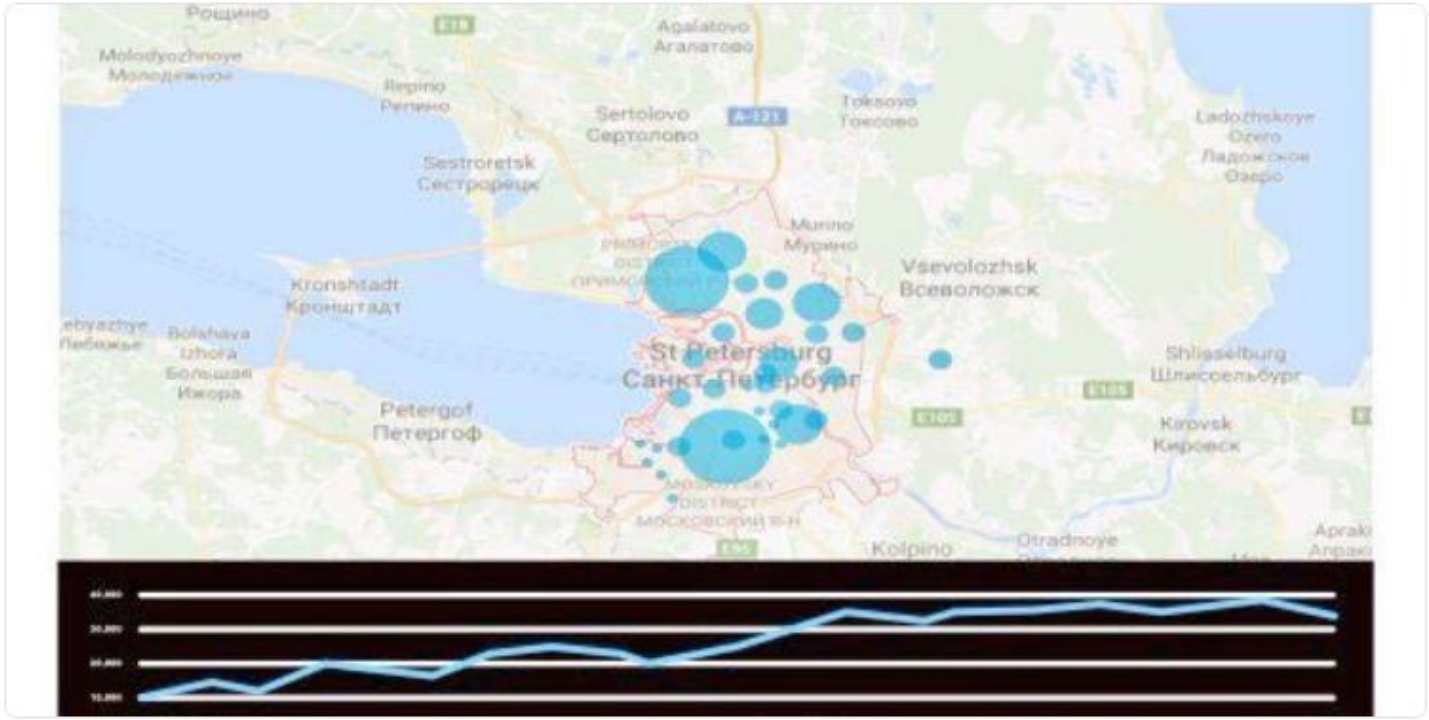
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HYBRIDIVAIKUTTAMISEN KEINOVALIKOIMA

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From Alexander Kosenkov, Cyber Conflicts as a New Global Threat

Table 1. Summary table.

Feature	Conventional Conflict	Cyber Conflict
Primary means	Coercive, destructive	Non-coercive, transformative
Conflict structure	Centralized	Potentially ultra-decentralized
Form	Fixed	Mutable
Delimitation of war and peace	Present	Absent
Dynamics	Medium	High
Timeframe	Precise	Vague
Involvement of private interests	Medium	High
Participation of non-state actors	Medium	High
Capability for differentiation of targets	Medium	Low
Control of conflict means (in the case of massive strike)	High	Low
Intelligence, adversary's capabilities assessment	Efficient	Hampered
Military planning	Efficient	Hampered
Deterrence mechanisms	Present	Absent
Public perception of conflict	Direct	Mediated
Potential for deception regarding the conflict	Low	High
Existence of efficient social and legal mechanisms applicable to the conflict	Present	Absent
Infliction of direct social effect	Absent	Present

DON’T FEED THE TROLL, eli ”Miksi olla vaikea kun pienellä vaivalla voi olla täysin mahdoton?”

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HYBRIDIVAIKUTTAMINEN

- Hybridivaikuttaminen on **kiistettävissä** tai ainakin toteuttajilleen **seurauksetonta**
- Tietotekniikasta riippuva yhteiskuntamme on **pehmeä ja monipuolisesti altis** hybridioperaatioiden osana toteuttaville kyberhyökkäyksille
- Avoin, demokraattinen ja sopimusten noudattamiseen perustuva yhteiskunta ei voi koskaan vastata provokaatioihin samalla mitalla.
  - Vastustajan pelin rikkominen on helppoa: näennäisen autonomiset toteuttajat valitsevat menetelmät itse. Narratiivin ohjaajan ei tarvitse kuin “maalittaa kohteet”.
- Kohteet valikoidaan laveasti ja **“siviiliuhreja” karttamatta**
- Hybridioperaatioiden mekanismien paljastaminen on myrkkyä hyökkääjälle.

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