THE HUMANIZED INTERNET

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https://www.thehumanizedinternet.org/
SOME OBSERVATIONS

- “Centralized” by a Few Large Organizations
- Polarity between “Dataveillance-Surveillance”
- The Individual?
A POTENTIAL VIEW: AND THE NEXT 100?

What will the Internet look like in 100 years?

We can't predict the future with 100% accuracy, whether it is 10 years from now or 100 years from now, but we can look at where today's technology is headed for a glimpse of what the Internet may be like in the future. At the pace things are moving, it's possible some of us may even be here to see it turn into reality.

In 100 years...

- Everyone on the planet will be networked.
- Homes, cars, businesses, even our bodies will be instrumented and monitored.
- Augmented reality will become normal.
- Real-time language translation will be available for use in face-to-face and conferenced conversation.
- Others speculate we'll all be wired into computers to make our brains work faster and better.

Some speculate that in just 20 years' (the new 100 years) time we will:

http://bgr.com/2014/07/02/future-of-internet-100-years/
THE BRAIN AS INTERFACE

We will no longer type, swipe devices but rather command with our brain. Portable MRI; Telepathy and so on.
**To use brain activity to do work; to command, control, actuate and communicate with the world directly through brain integration with peripheral Devices and Systems**

**Why Do We Think We Can Do Brain C³?**

- Neural code commands extracted and used to move a robotic arm
- New high density neural implants
- Better understanding of neuronal and force dynamics interplay

**Impact:**

Direct brain signals could control simple to more complex DoD devices & machines in real time from remote locations.
“LIVE BY THE DIGIT, DIE BY THE DIGIT”
ROLE OF NATION STATES: AI

- China
- Russia
- India
- And?
THE DYNAMICS

**RANSOMWARE**
Prepare to be exploited in 2015 as criminal gangs rush to make the most of this lucrative ‘business’.

**165% RISE**

**RISE OF THE BOTS**
IoT devices that can lock, monitor or have access to your data will become prevalent, bringing a new breed of vulnerabilities with them.

**50 BILLION DEVICES**

**CLOUD DATA**
The cloud industry is forecast to grow by 18.4% - while most security policies are still reliant upon simple SSL encryption.

**4.6 BILLION CLOUD USERS**

**MOBILE MALWARE**
A steep rise in malicious apps will threaten all mobile device users and their data as the entry barriers to app development come down.

**20 MILLION BAD APPS**

**HACTIVISM**
More people will take justice into their own hands - weather through leaking confidential data or unleashing DDOS attacks against their perceived enemies.

**500 Gbps DDOS ATTACKS**
MACHINE LEARNING: NOT A SILVER BULLET

WHAT CAN MACHINE LEARNING DO FOR CYBERSECURITY?
A POTENT NEW ARSENAL FOR IT AND CYBERSECURITY PERSONNEL

- User entity behavioral analytics, deep learning, automation
- Assist IT professionals and defend against new cyberthreats
- Better predictive models, lower FPR, distill new metrics
- Fraud and anomaly detection
- Defend against new cyberthreats
- Better use of internal data and global repositories
- Tackle device influx and enhanced data loss prevention (DLP) solutions

Data Science: Applying machine learning and creating new data models to combat new threats
Data Collection: Harnessing the power of data from a wide spectrum of sources
Cybersecurity: Domain-specific knowledge and versatility in an ever-changing environment
RISKS TO HUMAN RIGHTS
I CAN PROFILE YOU! NOTHING IS FOR “FREE”
BEHAVIORIAL AND FACIAL ANALYTIC TOOLS LIKE: HIREVUE?

For the next 100 years, let’s not lose sight of the individual!
Let’s integrate ethics and governance now and in the future for the sake of our humanity!
REFERENCES

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  https://ethicsinaction.ieee.org/
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