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# Why Networks Still Matter

Tim O'Neill

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O'Neill, Tim, "Why Networks Still Matter" (2018). *KSU Proceedings on Cybersecurity Education, Research and Practice*. 5.  
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**Location**

KSUC 300

**Disciplines**

Information Security | Management Information Systems | Technology and Innovation

O'Neill: Why Networks Still Matter

# Why Networks Still Matter?

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**By: Tim O'Neill**

**[WWW.LoveMyTool.com](http://WWW.LoveMyTool.com)**

# Main Reason

*KSU Proceedings on Cybersecurity Education, Research and Practice, Event 5 [2018]*

- Simply we are addicted to information and access – IAD – Internet Addiction Disorder
- The Network is the new Religion!
  - Everybody Believe's
  - Even with -
    - Threats
    - Corruption
    - Information lost
    - \$Billions/yr loss to fraud, social media time loss..etc
    - Social and Emotional issues
  - <https://digitalcommons.kennesaw.edu/ccerp/2018/industry/5> Plus - It is just COOL!

# Question

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- How many of you, in this group, have an addiction disorder of any kind?



# Stats – Not so good!

*KSU Proceedings on Cybersecurity Education, Research and Practice, Event 5 [2018]*

- 80+% say that they are addicted to the internet (35 under)
- 50+% leave their computer on - in their bedroom 24 hours a day
  - Loss of privacy
  - Loss of innocence
    - \* camera is very easy to hack for remote viewing
- 75%+ keep social media info updated daily
  - Some every minute – some apps do it for you?
- Big issue - Criminals can stay hidden
  - You total life can be stolen or destroyed
- Dis-Information can cause social disorder WW

<https://digitalcommons.kennesaw.edu/ccerp/2018/industry/5>

# The Good

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- Information!!!
- Beauty
- Never should feel alone
- Sharing
- Expansion of society and social values
  - Not always good (however)
- Staying in touch for safety
- Many GOOD things.
- Many believe that the Internet has stopped wars

# Networks are NOT going away

*KSU Proceedings on Cybersecurity Education, Research and Practice, Event 5 [2018]*

- IPv6 – Not realistic
  - Need mitigation technology
  - Cost to force migration many \$ Trillions
  - Too Many Standards – Not feasible
- More IoT – Unmanageable
  - Not the best reliability and safety, yet
- Passing more information at thousands of times faster
- Access to more types of data sets
  - More aggregated mathematical data sets for information types



# The Network of tomorrow

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- More information in smaller file sets!
  - **All your PII and relevant data can be stolen in less than 30 seconds.**
- More threats –
  - Physical
  - Financial
  - Reputation
  - Loss of privacy
  - More addiction
- More control of environment
- Less physical contact vs more virtual contact

# If Networks are Not going away!

*KSU Proceedings on Cybersecurity Education, Research and Practice, Event 5 [2018]*

- We need to get smarter –
  - Protect our data
  - Protect our children's data
  - Protect our Families
  - Manage our “REAL” lives
  - Learn how NOT to be spoofed/scammed
  - Call for more laws and punishment for criminals WW
  - TAKE RESPONSIBILITY – Like locking your car/house

# Real Big Needs!!!

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- International Laws
- Much Better - Methods of digital data protection
  - Time to live methods
  - Better encryption
- More International Law Enforcement focus
- Better methods of detection
- Better training for network Security Professionals
- Forensic training and methods
  - Evidence chain
  - Evidence preservation
- A Focus on Protection

# **A look back**

***Before the Internet***



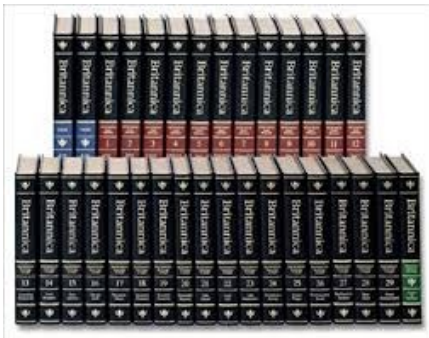
# Yesterday

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Home Info,  
Insurance,  
Bank account  
..etc



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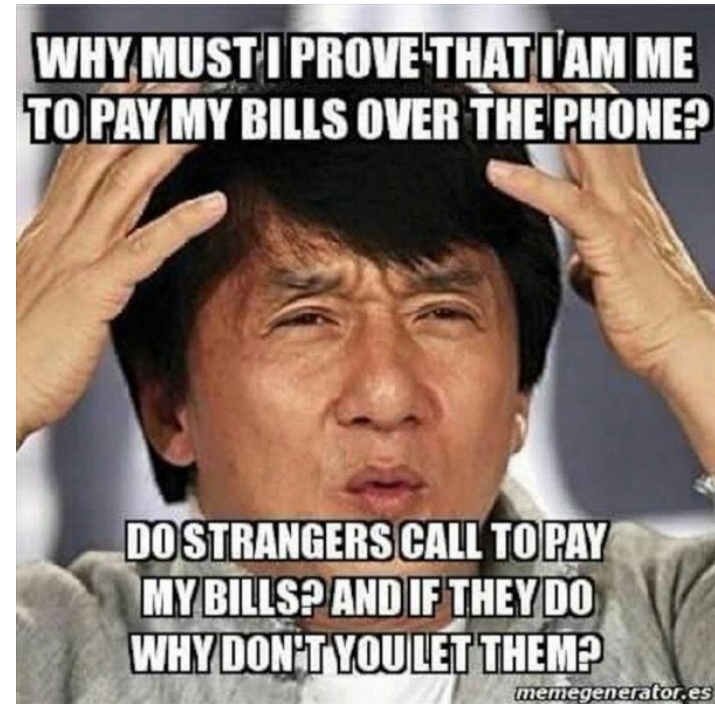


# Today – Everything but physiology

*KSU Proceedings on Cybersecurity Education, Research and Practice, Event 5 [2018]*

In one small file - everything on you!

In less than 30 seconds I can know all I need to know about you!



<https://digitalcommons.kennesaw.edu/cis/cis-erp/2018/industry/5>



# Looking forward to the future

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## When a thought will be our connection!

