



The Future of Cyber Crime and Forensics

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Dr. Marcus Rogers
Professor, University Faculty Scholar
Fellow AAAS, Fellow CERIAS
Faculty Chair - Cyber Forensics Program and Lab
CERIAS/Dept. of Computer & Information
Technology
Purdue University, USA

- Digital Forensics is maturing and evolving
- Big data is dragging us into increasing levels of automation
- Humans are not going to be made completely redundant anytime soon

- Rise of organized and criminal organizations
- Nation state backed cyber crime
- Cyber crime & cyber warfare

Digital Forensics



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- The Zero Generation: The Mesozoic era
- The First Generation: The Enhanced Hex Editor Era
- The Second Generation: The Database Era
- The Third Generation: Digital Forensics Software as a Service

**** Huber, E. (2012) A fistful of dongles - Blog**

- Ad Hoc Phase
- Structured Phase
- Enterprise Phase

** Charters, I. (2009). The evolution of digital forensics - (creative commons)

- Vendor dependent

- Acquisition

- Data dependent

- Analysis

- Client dependent

- Decision/Analytics

Big Data



Human brain can store about 2.5 petabytes of information



● Big Data Dimensions

- Volume

- Velocity

- Variety

- 2.5 Quintillion bytes of data produced/day!
- 90% of the data in the world today was created in the last 2 years!

Now What?

- Automated scripts
- Expert systems
- Statistical tools
- Machine learning