Operating Systems
Spring Semester 2020

Greg Witt
greg.witt625@gmail.com

L-27

On Data Archaeology and how to prevent a "Digital Dark Age"

This article sheds light on an issue which is not on the minds of most people. The lost data problem in the 21st century. Considering that most data methods for storing information in digital archives from 1997, are in proprietary binary formats which are encrypted. All of which are stored on unmaintained versions of encryption codes which are virtually impossible to reverse engineer to obtain information on. With all of this in mind it is no wonder that converting and uncovering this data from the 2000s might not be the most feasible or the most practical. Most Big Companies such as Microsoft and Google are aware of the problem and have been working towards uncovering 580TB from old Microsoft files since 2007. The problem is keeping this data feasibly stored and maintainable for accessing in the future. Most of the problem for this is that there is a need to decommission the data stored due to the fact that the applications store them in increasingly obsolete and non-standard formats making them not standardly exportable. The process of storing these files is called Digital Preservation. The more consideration we make now in the storing process could save centuries of data in the future and persevere data for many years.

Panel recommends doubling government spending on artificial intelligence (AI) and machine learning.

This article is about the congressional mandated panel of technology experts issuing a recommendation for the needing to double their spending on artificial intelligence. In 2018 the National Defense Authorization Act allowed for the creation of the National Security Commission on Artificial Intelligence. This department of the US government is tasked with reviewing the advance meets in artificial intelligence, machine learning and other technologies for the US's security and economic interests. In April 2020 the department issued 43 conclusions , the first being that the department should immediately double non-defense spending to $2 Billion in 2021. For 2021 the Department requested

 $800 Million in AI development funds and and $1.7 Billion in AI enabled autonomy. These technologies are suggested to increase non defense issues and could immediately start decreasing the impact of using AI to aid with the on going COVID-19