The Security of Cyber Physical Systems

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# Abstract

# Introduction

# Background

## What Are Cyber Physical Systems?

Cyber physical systems, or CPS, are feedback systems that require merging physical components and computational components (National Science Foundation).

Cyber physical systems are more commonly known as the Internet of Things (NIST).

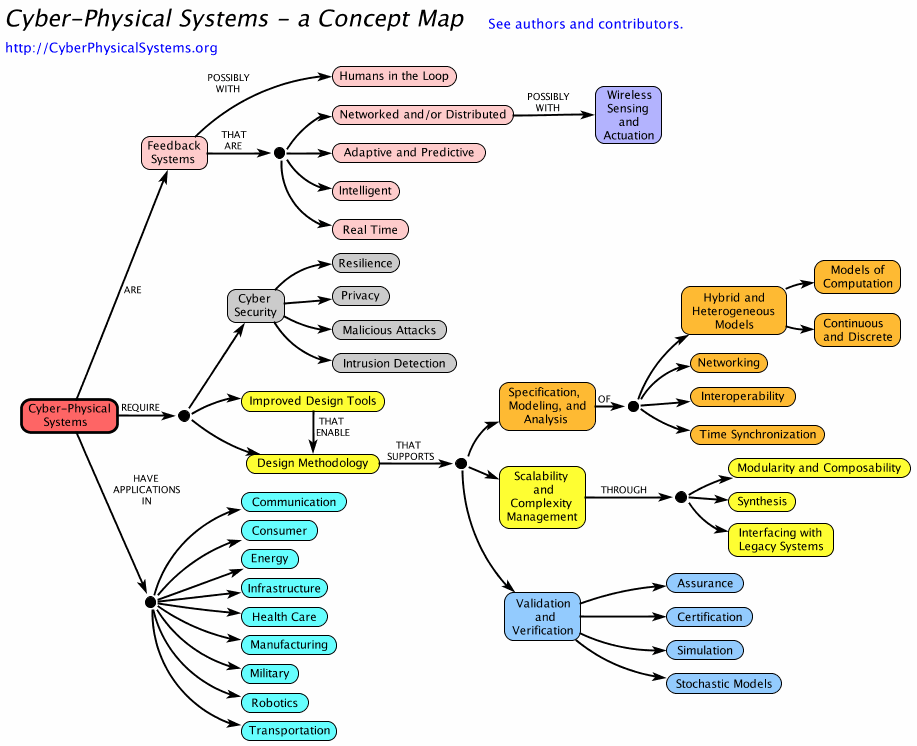


Figure 1 - A tree explaining cyber-physical systems (Cyber Physical Systems)

Cyber-physical systems can be explained using a well-designed flowchart, (see Figure 1 above). These systems usually have distributed using wireless technology. They must be able to change due to certain conditions and even expected changes to come in how the processes execute. CPS can learn from its environment, changing its behaviors. All of these can be done while it is executing commands in real-time to meet the required time restraints.

## How Do Cyber Physical Systems Work?

# Purpose

The purpose of this report is to examine the various issues that affect security of cyber physical systems.

# Scope

This report will discuss the various security issues and vulnerabilities that occur within cyber physical systems, and give examples of potential solutions to these issues.

# General Discussion

# Conclusion

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