

introduction

cbd2204: Big Data Strategies

your instructor

Takis Zourntos, PhD, PEng

- areas of work: robotics, IoT, hardware and software engineering
- experienced R&D engineer
 - start-ups, worked with large and small tech companies (Texas Instruments, The Mathworks, Rockwell-Collins)
 - Canada, USA
- experienced instructor
 - Texas A&M University, University of Toronto, various colleges (like this one)
- program coordinator for the EMBT program

data, data, everywhere!

- like never before, data sources abound
- what are we doing with all of this data?
- where is it coming from?

more things are going “online”

- post-Covid (we are still in it!), what has changed about how we work?
- games
- social media
- IoT

Internet of Things (IoT)

- more than 50-billion devices will be on-line by 2025 (more than people!)
- what does IoT look like in your life?
- privacy issues?
- data security?

how dependent are we on Big Data?

tools for class:

git and github.com

Linux, some Bash scripting, C/C++ (not expected to know C/C++)

- shell code will be provided

AWS cloud

- EC2, S3, Dynamo DB, IAM, etc.