About Me

Hanan Lutfiyya

Current Status

- Chair of Computer Science
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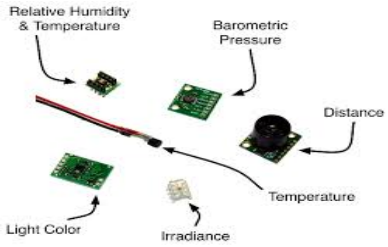
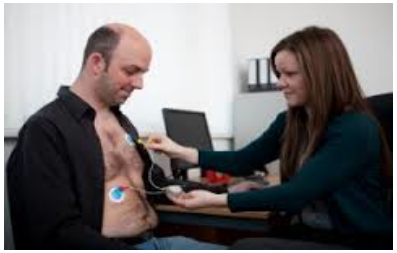
My Research Interests

- Distributed Systems/Cloud Computing
- Internet of Things
- Software Engineering
- Adaptive Systems
- Resource Allocation
- Mobile Computing
- Fault Management

Sensors



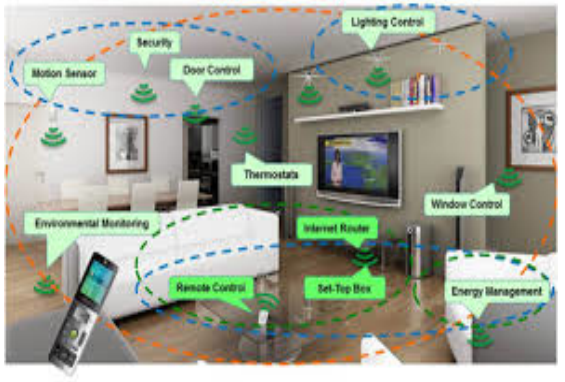


- A sensor is a device that measures a physical property e.g., heat, light, motion
- Actuators can control some aspect of physical entities
- Sensors/Actuators can be embedded in our bodies, environment, cities, , etc resulting in an Internet of Things

Applications

HealthCare

Manufacturing



Home

Disaster Response

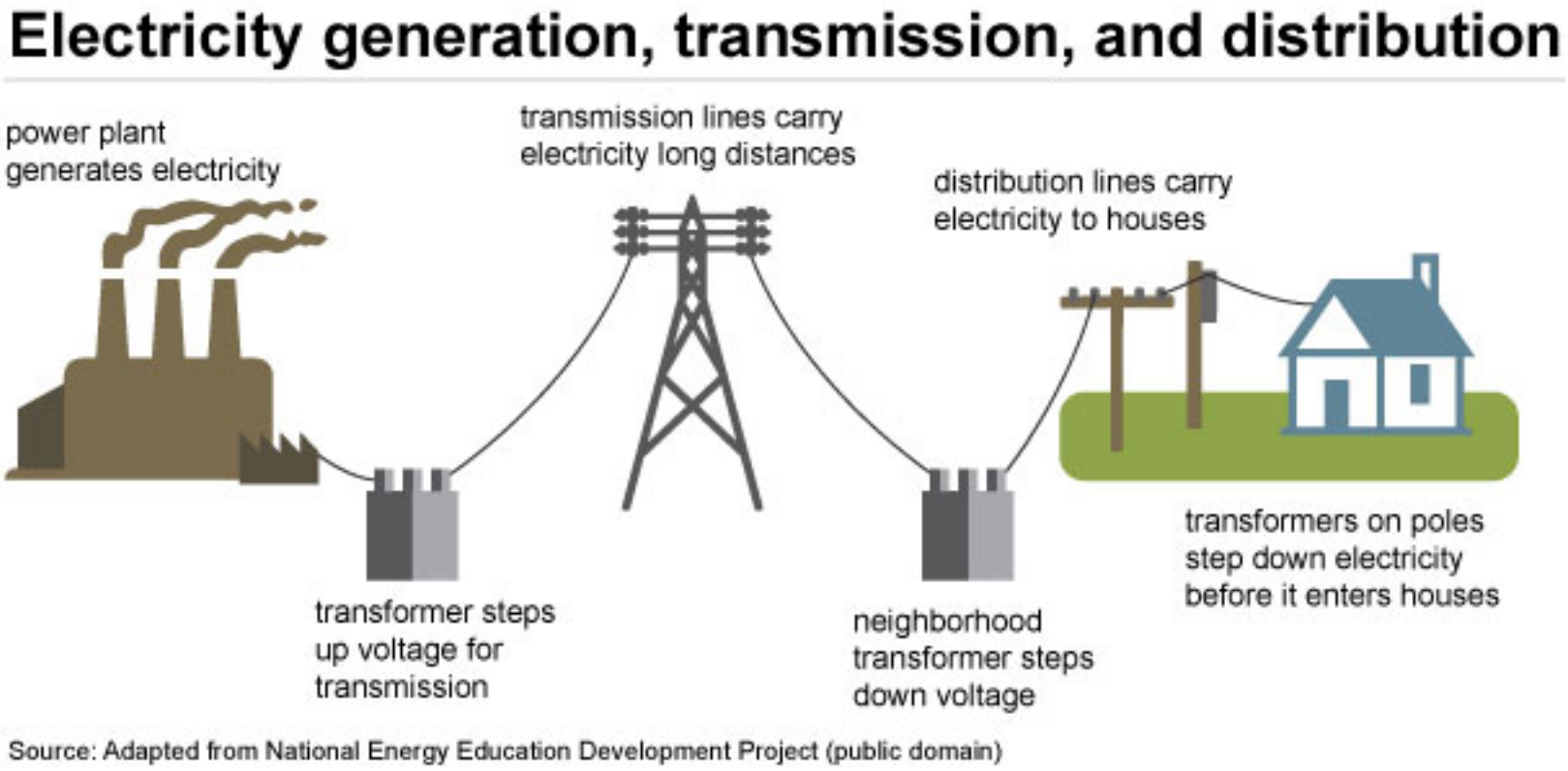
Energy management

Traffic

Limited

You can have a lot of sensor data but analysis of the data to enhance operations is challenging

Project: Smart Grid



- We are developing techniques to localize the cause of a power outage

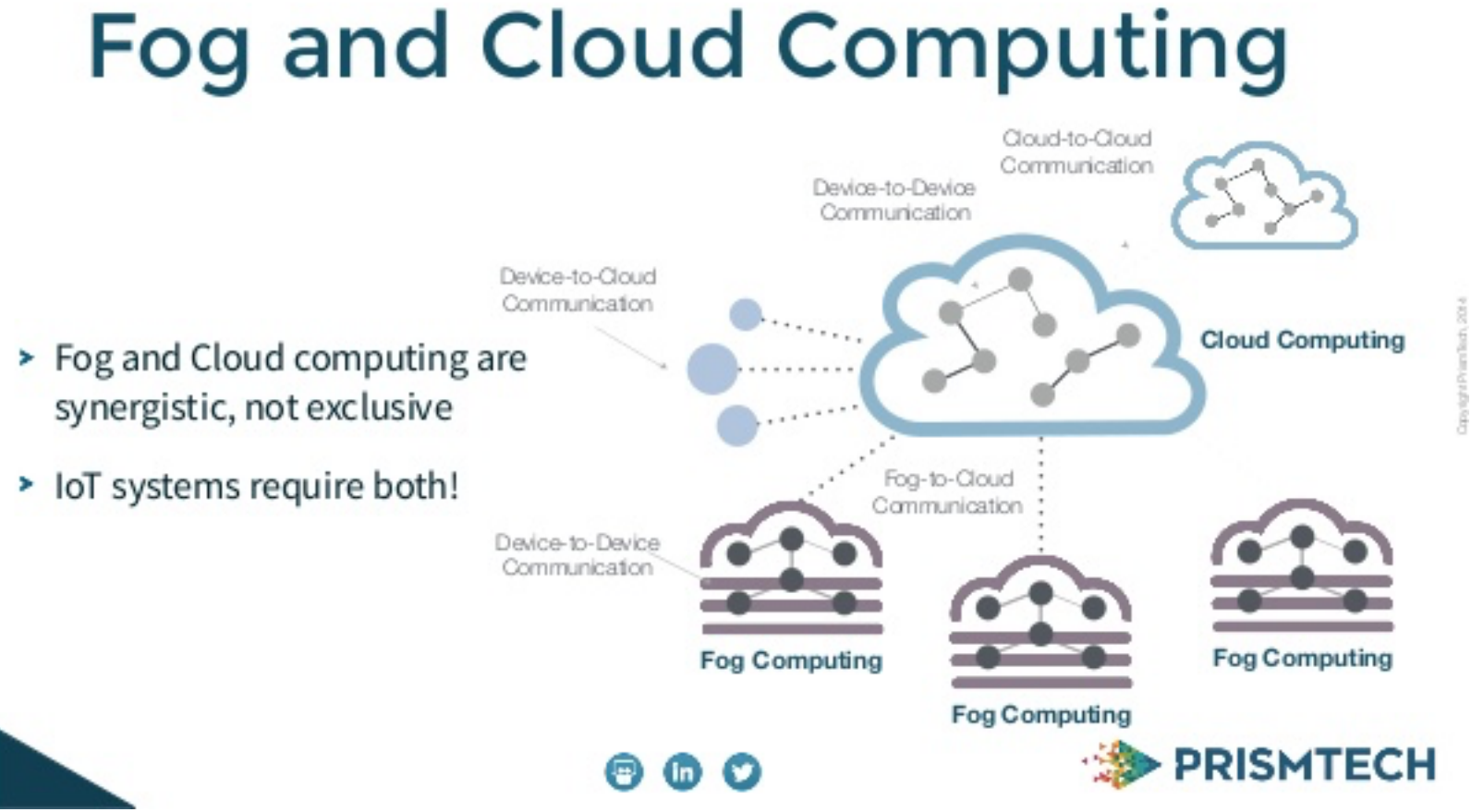
Project: Energy Consumption

- We are developing techniques for analyzing electricity consumption
- The analysis is to be used for helping consumers reduce energy consumption

Current Projects

- Smart Grid with Tillsonburg Hydro
- Energy Management (a local municipality in Ontario)
- Smart Cities (in conjunction with a Telco)
- Resource management in a combined cloud/fog platform

Project



Managing fog and cloud resources
Programmability

Graduate Course

- I am teaching "Unstructured Data" with Dan Lizotte
- This combines information retrieval techniques and analysis environments