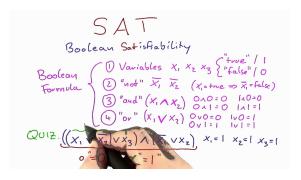
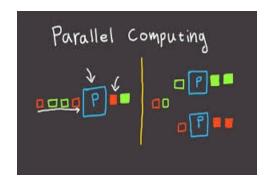
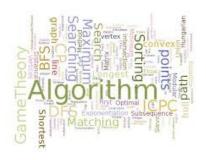
#### Research

#### Research Areas

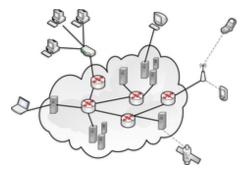












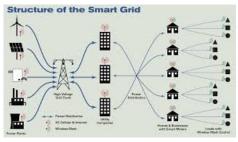






#### **Application Areas**



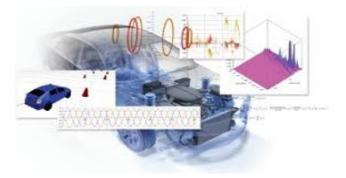












#### Industry Sponsors











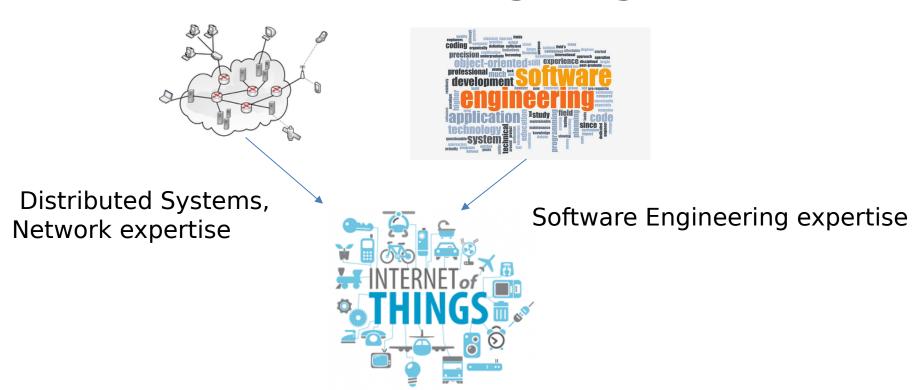




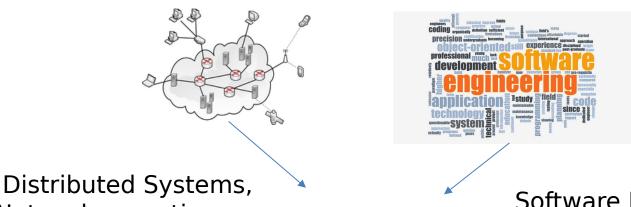




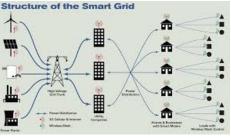




- Largest NSERC Strategic Grant in Canada granted on IoT Middleware
- Team: Led by Western includes Toronto, UVic

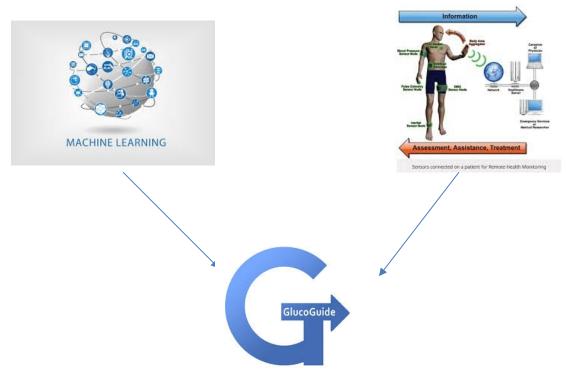


Network expertise

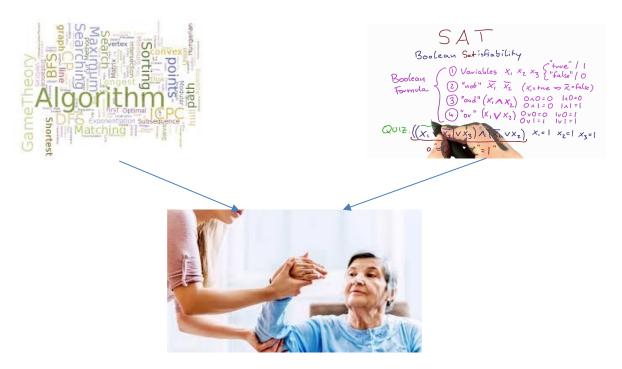


Software Engineering expertise

- Projects
  - Finding the cause of an outage
  - Rerouting power in response
  - Encourage consumers to reduce energy usage with apps and/or games



- Combine ML and patient data to suggest lifestyle changs
- GlucoGuide is a company started by a CS faculty algorithm based on the research



- Neuroinformatics Study of the brain
  - Research: Help stroke victims recover their hands
  - Research: Develop concussion blood test

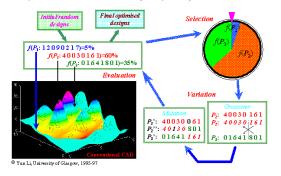
#### <u>Rese</u>arch Highlight



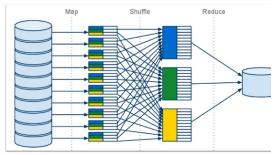


- Focus on the attentiveness of drivers;
- Car may automatically stop at a stop sign if it detects that the driver isn't paying attention
- Must be done in realtime

#### Computer-Automated Design by Artificial Evolution

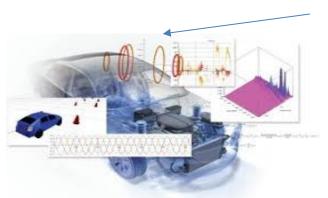


Genetic algorithm





Parallel Models – optimize performance



#### Research Algorithm

 Some of the fastest bioinformatics algorithms in the world have been developed at Western.

 New emerging area in game analytics.