

Complex systems Behavior analytics and optimization LAB (CBlab)

(Dr. Cheng-Bang Chen)

Advanced Sensing

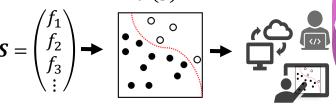




System Optimization

Quantified Features

 $\begin{array}{ccc} \textbf{Machine} & \textbf{Decision} \\ \textbf{Learning} & \textbf{Support} \\ \textbf{Deep Learning} & \\ \mathcal{F}(S) & \end{array}$

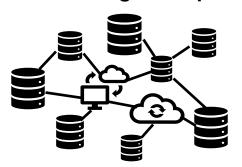


Sensor-driven modeling, monitoring and optimization of complex systems

- Novel design of nonlinear complex systems
- Innovative predictive/diagnostics tools for real-world processes

Data Integration

Cloud + Edge Computing

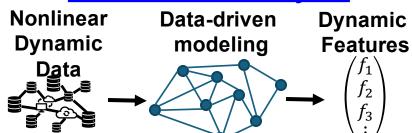


<u>Area</u>

Focus

- Mining Complex Dynamic
 Behaviors in Complex Systems
- Large Scale Data Analytics for Decision Optimization and Resource Allocation

Nonlinear Data Analytics



- Advanced Data Analytics
- Smart Health
- Smart City/Energy