

Intelligent Complex Systems Laboratory

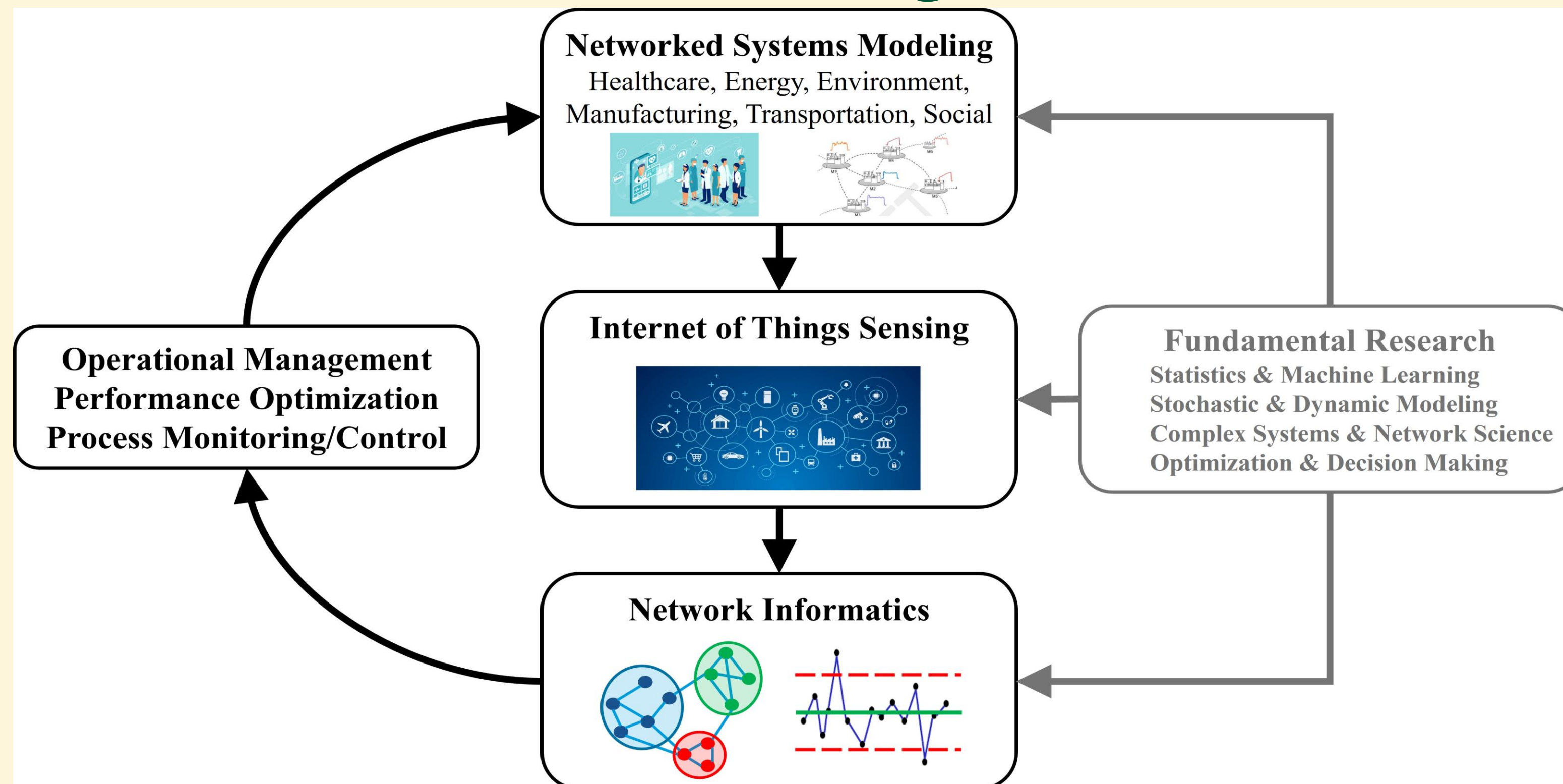
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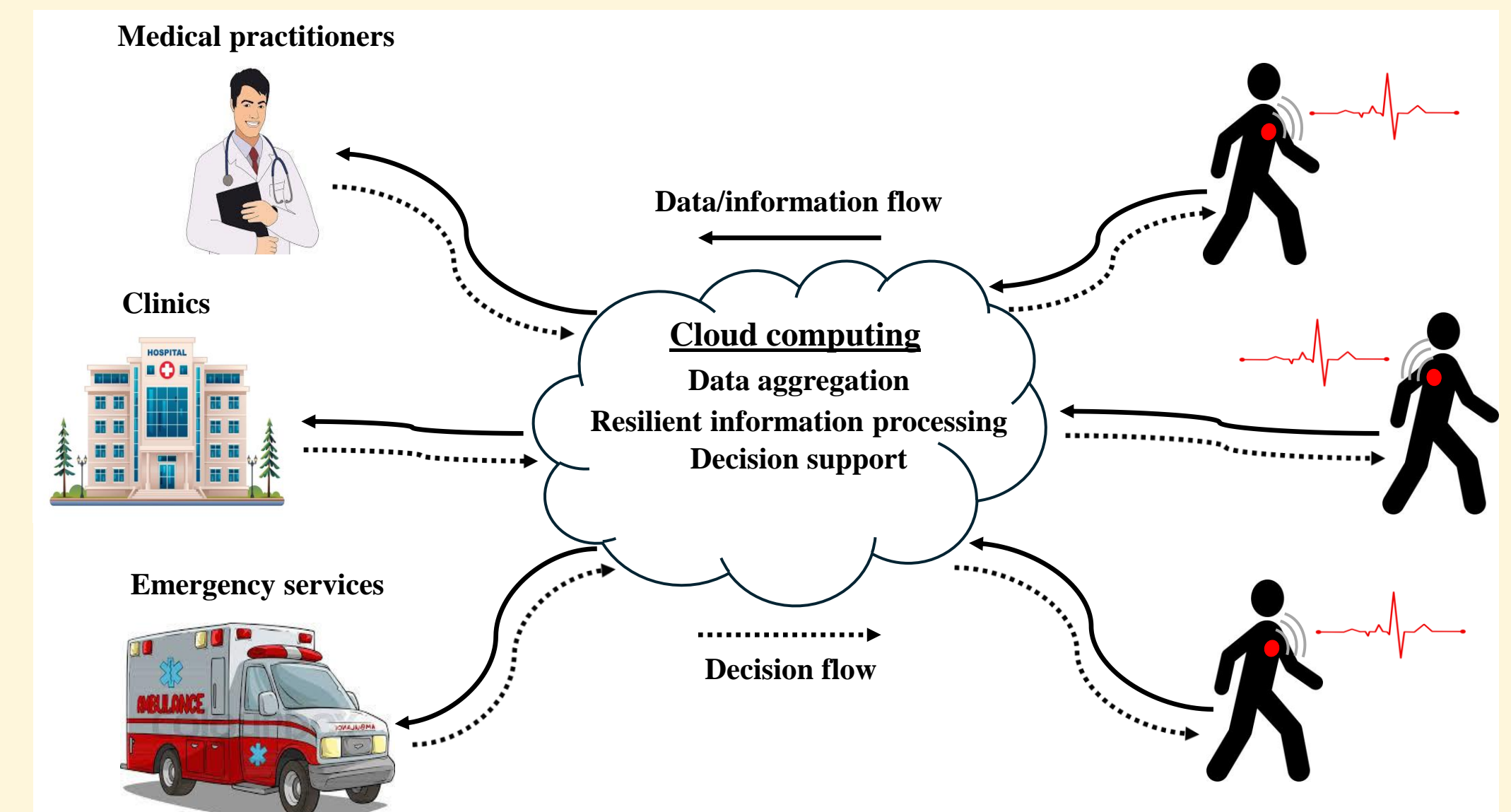


Research Agenda

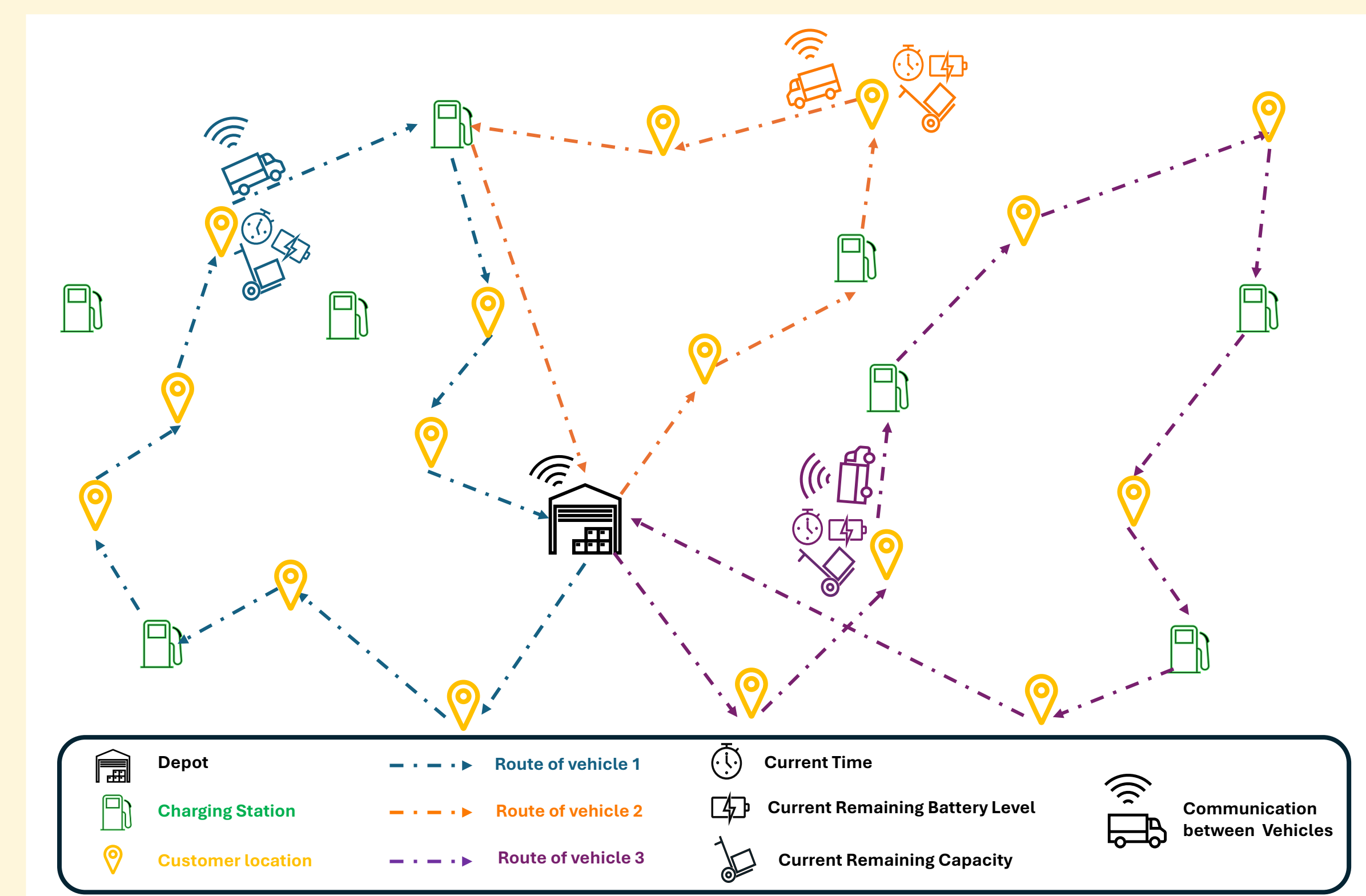


Primary Applications

Smart Healthcare Systems



Intelligent Transportation Systems



Research in the ICS Lab addresses three primary questions:

1. **Modeling of modern complex networked systems and operations:** How do we model modern complex systems and operations that are large-scale, dynamic, and stochastic to enable accurate, yet tractable, analysis?
2. **Information extraction and processing from big sensing data:** How do we extract meaningful information from big sensing data that is high-volume, high-velocity, heterogeneous, and noisy and that arises from nonlinear and spatiotemporally-dependent processes?
3. **Large-scale network optimization and decision making under uncertainty:** How do we utilize the information from big sensing data to optimize network performance and efficiency while accounting for uncertainties?