

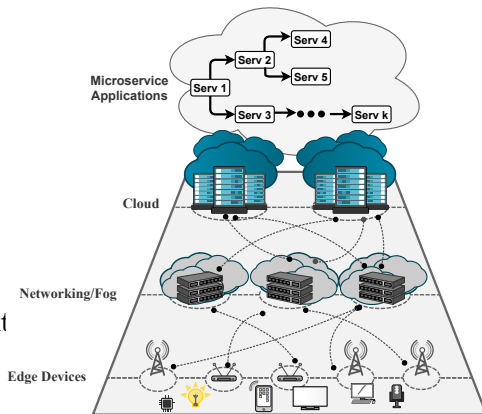
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PhD Topic :

How to reduce the energy consumption of IoT infrastructures ?

Challenges :

- ▶ Highly heterogeneous infrastructures
- ▶ Large scale networks and applications
- ▶ No simple, performant, reproducible measurement methods





1. Developing simulation models (current work)

- ▶ Develop communication / application / energy models
- ▶ Evaluate these models with real world data
Ex: A microservice performance model in SimGrid compared to real microservice executions on Grid'5000

2. Evaluating energy saving approaches (future work)

- ▶ Measure energy consumption of heterogeneous hardware with the help of testbeds
- ▶ Using previously developed models, design and evaluate energy saving methods.

Thank you !