

PERMIT: Privacy-Enabled Resource Management for IoT Networks

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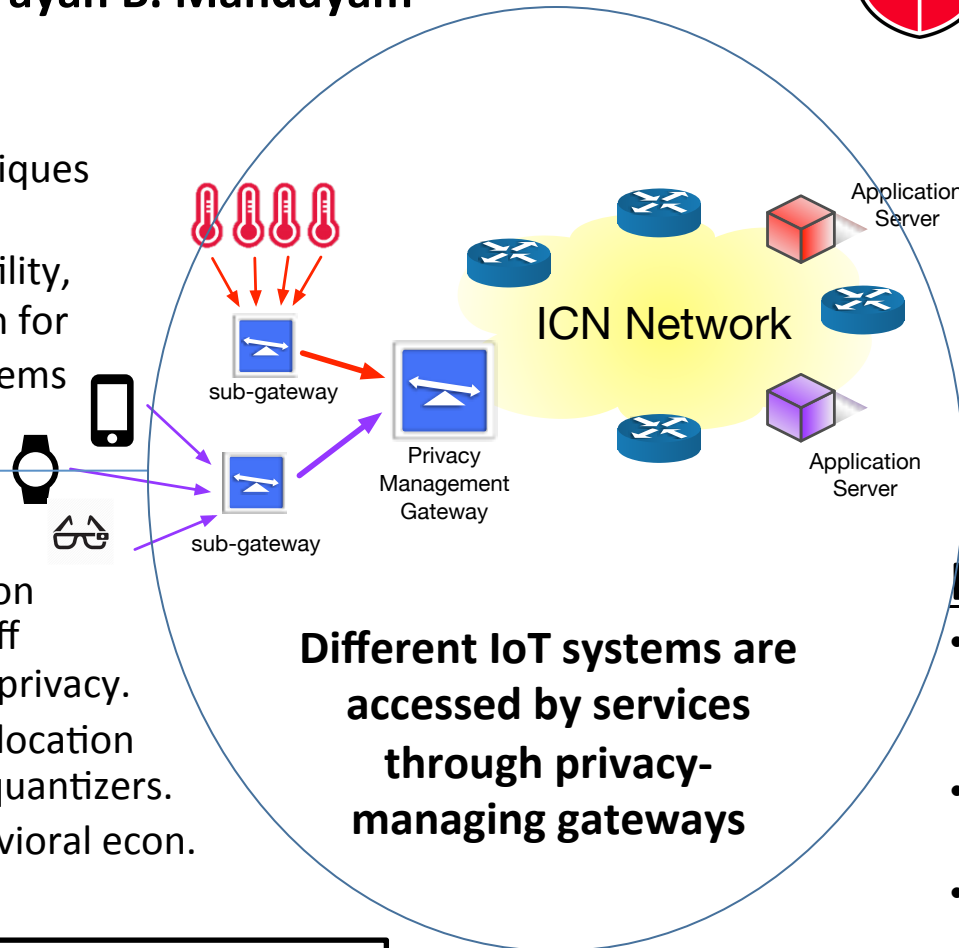
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Challenge:

- Develop techniques for managing privacy risk, utility, and bandwidth for future IoT systems

Solution:

- Use quantization rate to trade off distortion and privacy.
- New privacy allocation strategies for quantizers.
- Ongoing: behavioral econ. perspectives



Scientific Impact:

- Show how to use differential privacy in IoT systems
- Suggests that “baking in” privacy at sensors/gateway may be feasible

Broader Impact:

- Demonstrate ways to make privacy-centric sensing systems.
- Plans for testing at WINLAB ORBIT testbed.
- Supporting female graduate student Sijie Xiong.

Award # 1617849

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