

# Enable Touch-based Communication between Laptop and Smartwatch

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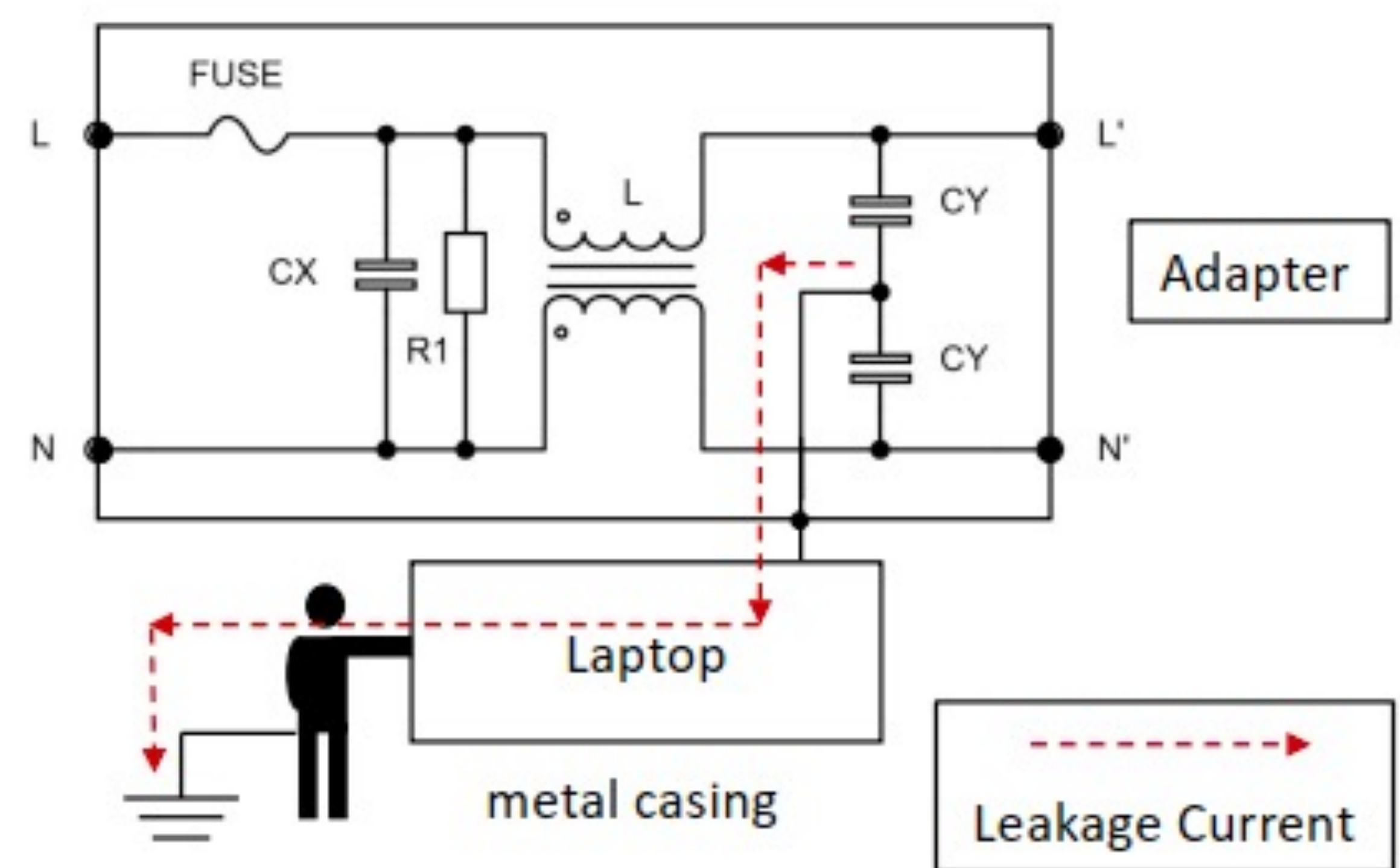
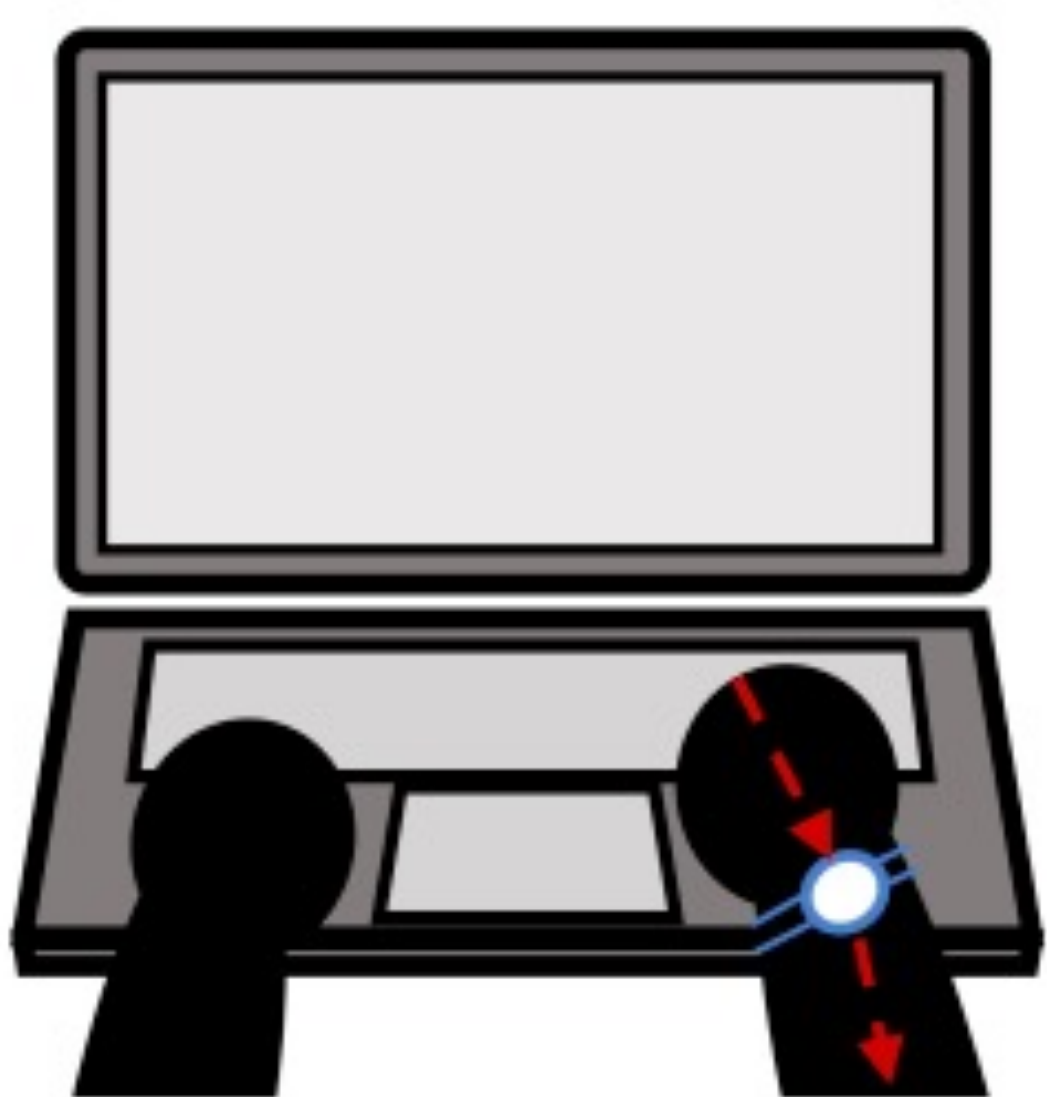
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## 1. Introduction

Leakage Current



TouchHBC based application



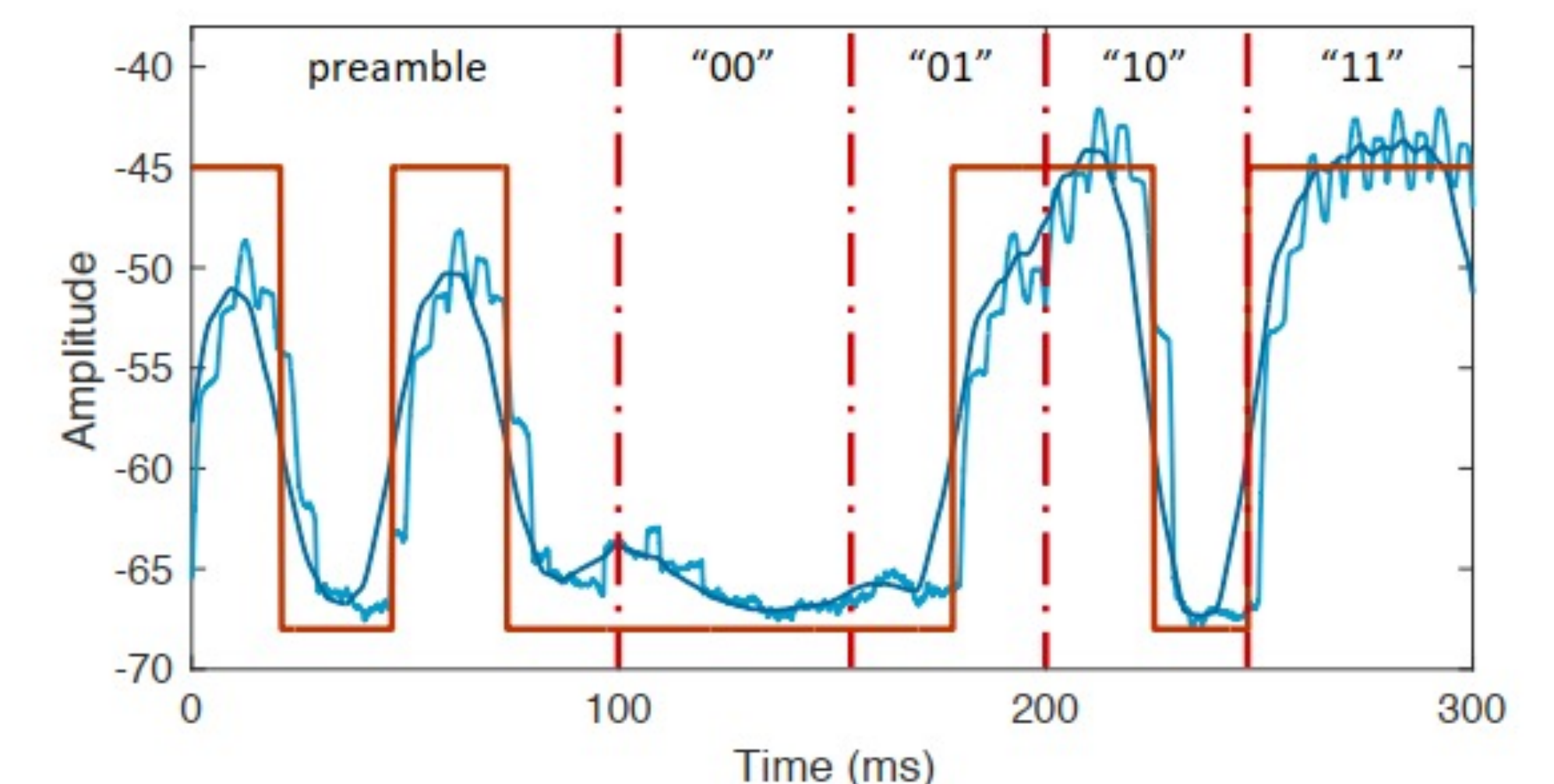
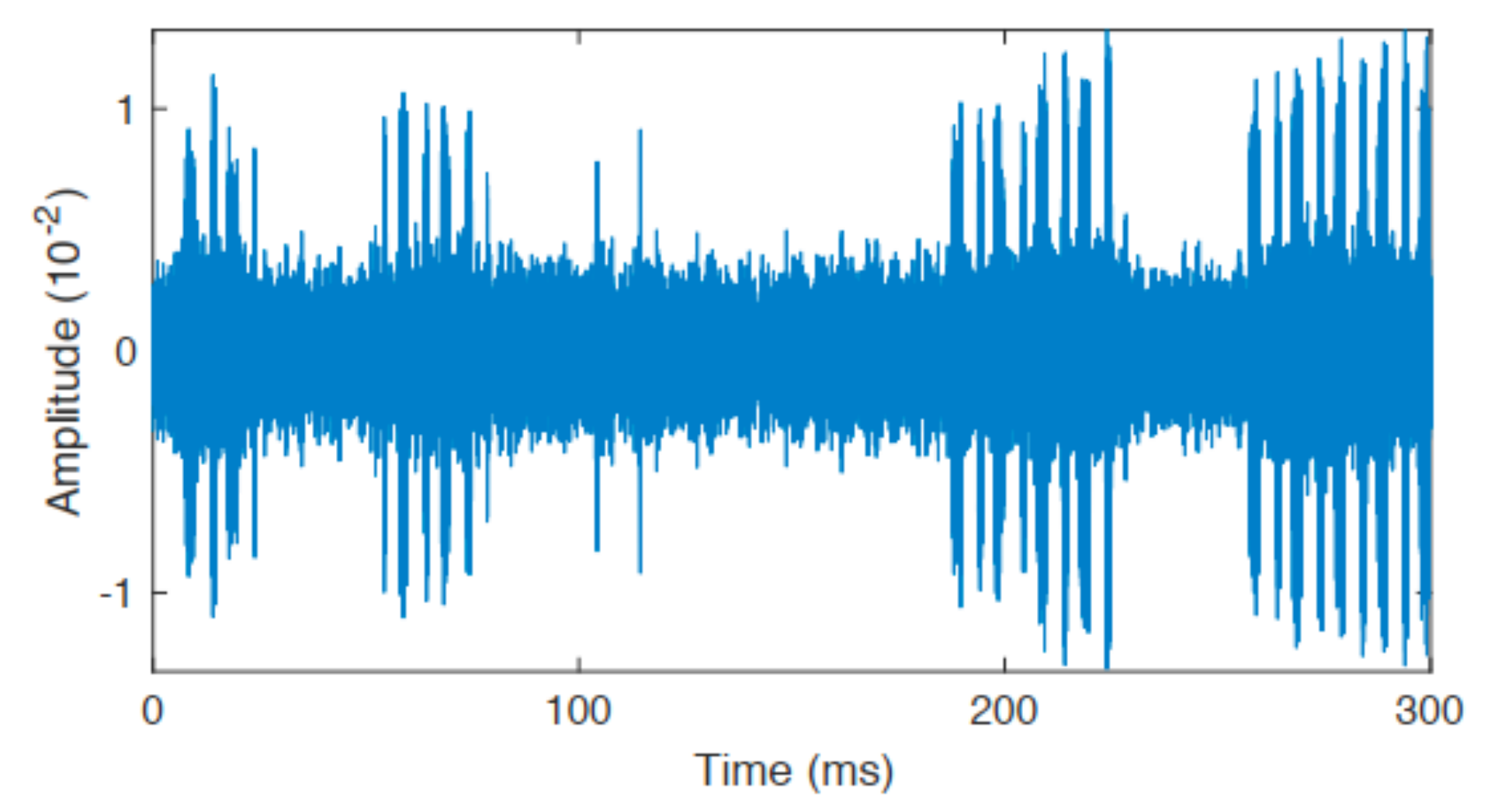
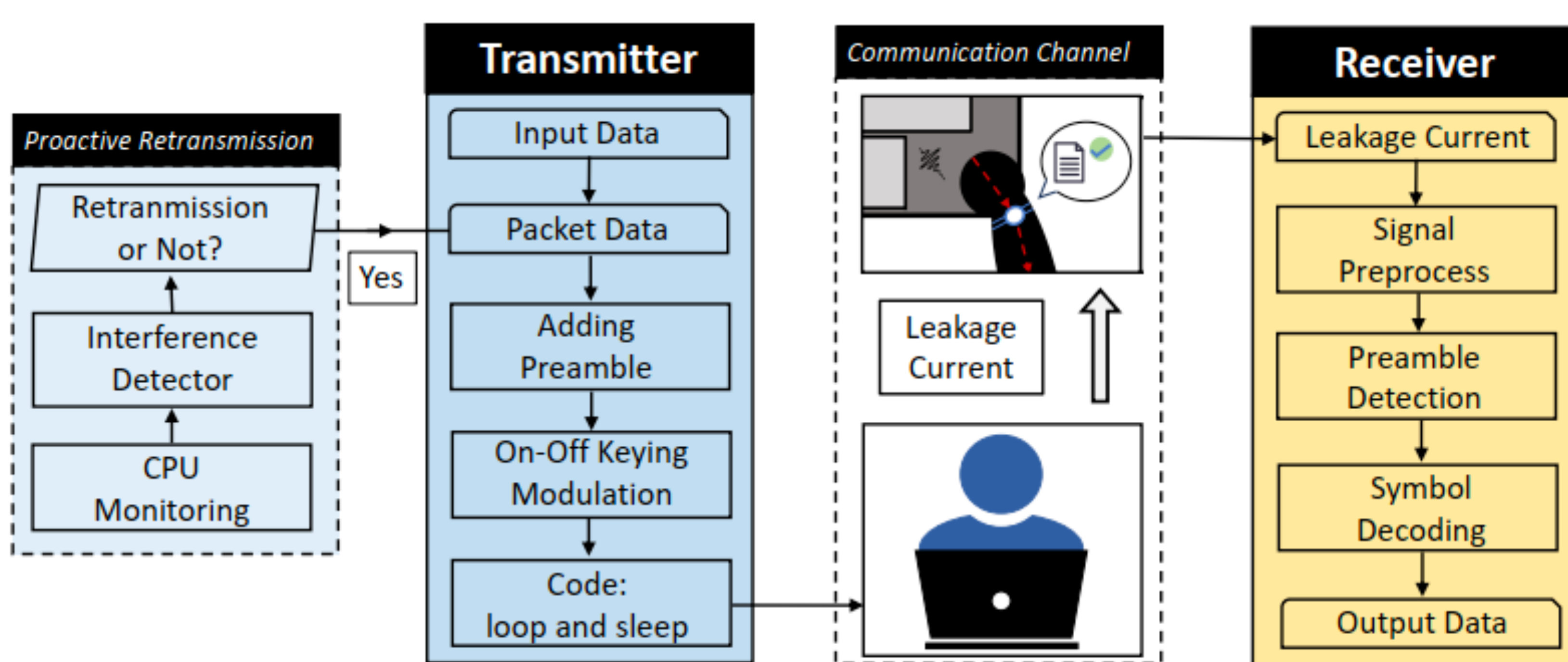
TouchSense



TouchLog

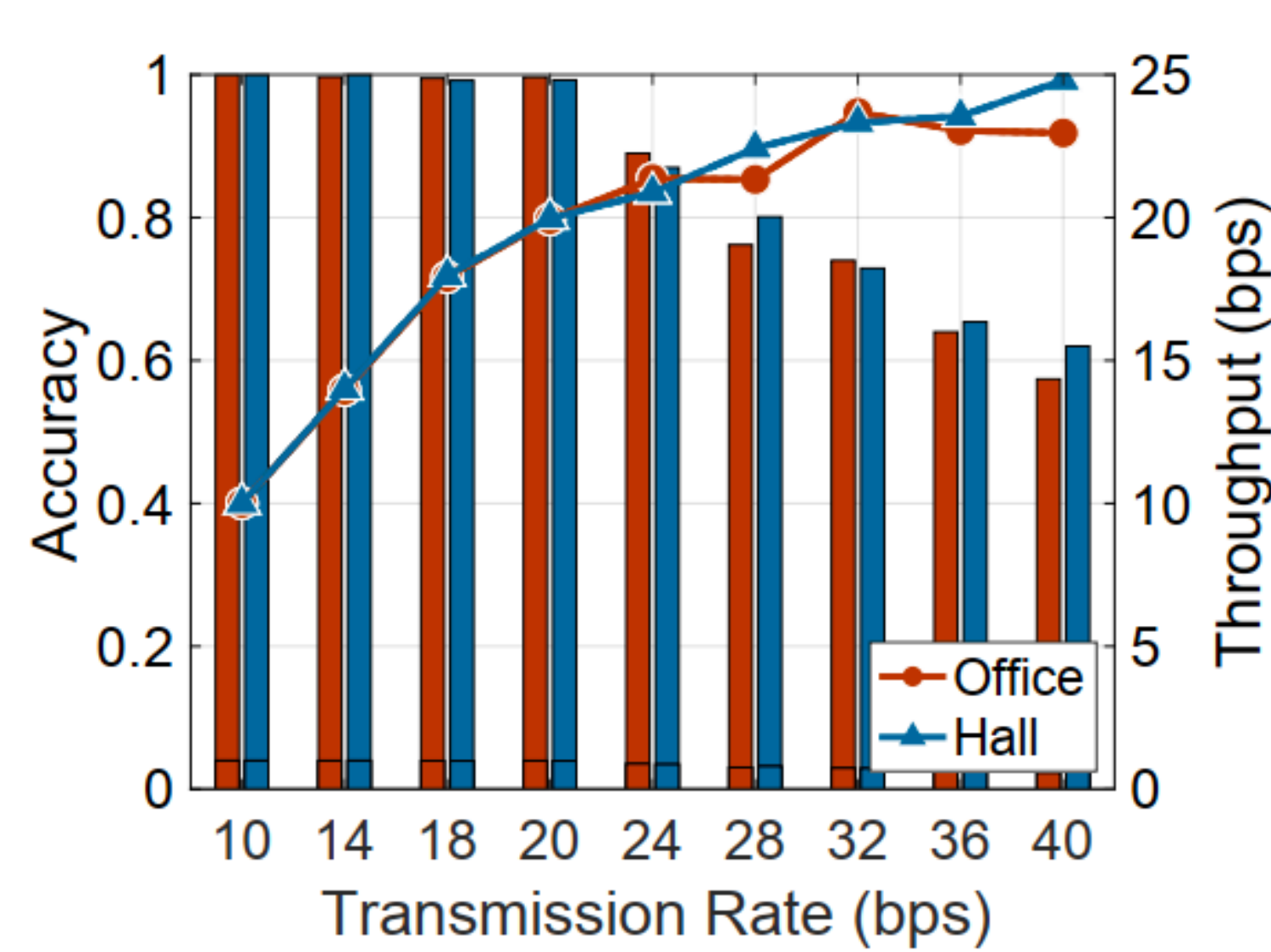
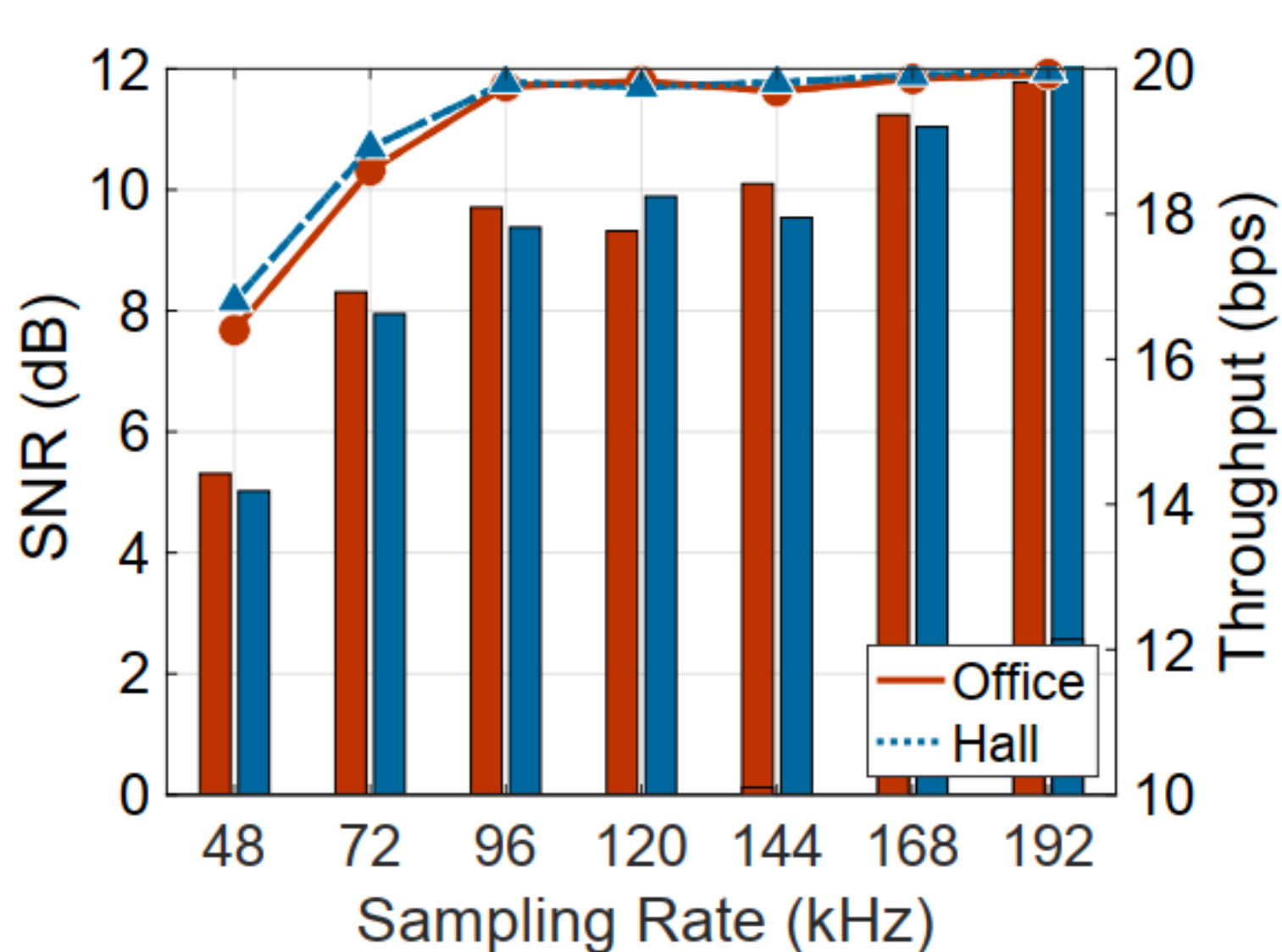
- Touch-based Communication based on leakage current of laptop.

## 2. System



- Leakage current coding based on CPU modulation.

## 3. Application



- System achieves a throughput of 19.83bps in real-world tests.



TouchSense

- ① Enhance gaming experience with haptic feedback
- ② Prompts for text editing errors
- ③ Synchronize unread messages



TouchLog

Touch-based application login