# Maximizing Broadcast Throughput Under Ultra Low **Power Constraints**

### ABSTRACT

- We obtain the oracle throughput and use Lagrangian methods to design EconCast a simple asynchronous distributed protocol in which nodes transition between sleep, listen, and transmit states, and dynamically change the transition rates.
- EconCastcan operate in group-put or anyput mode to respectively maximize two alternative throughput measures.
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## **EXISTING SYSTEM**

- Wireless object tracking applications are gaining popularity and will soon utilize emerging ultra-low-power device-to-device communication.
- In particular, the available energy, the differing power consumption levels for listening, receiving, and transmitting, as well as the limited control bandwidth must all be considered.
- Therefore, we formulate the problem of maximizing the throughput among a set of heterogeneous broadcasting nodes with differing power consumption levels, each subject to a strict ultra-low-power budget.

#### **PROPOSED SYSTEM**

- In this paper, we considered the problem of maximizing the broadcast groupput and anyput among a set of energy constrained nodes with heterogeneous power budgets and listen and transmit power consumption levels.
- We also provided efficient methods to obtain oracle groupput and oracle anyput for a given set of heterogeneous nodes.

# HARDWARE REQUIREMENTS Intel core i3 • Processor • RAM - 2B Hard Disk - 20 GB •

# SOFTWARE REQUIREMENTS

- Operating System : LINUX
- Tool : Network Simulator-2

• Front End : OTCL (Object Oriented Tool Command Language)

#### REFERENCE

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