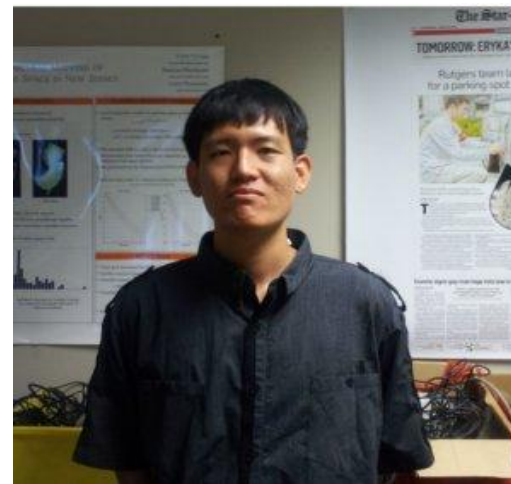# Extending GSTAR to support Multicast and Inter-Domain Routing

Shreyasee
Mukherjee

Sowrabh
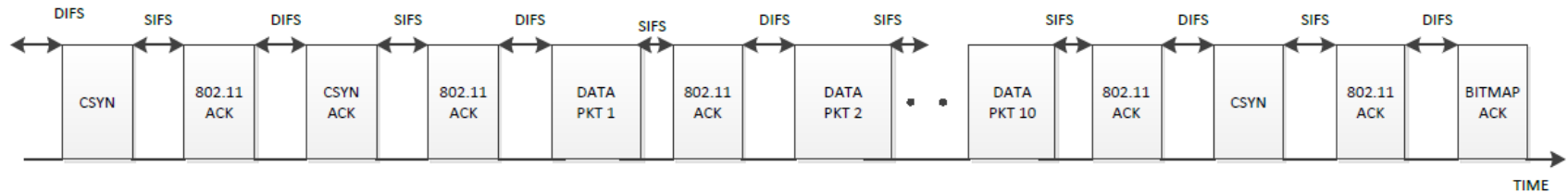Moily

Jay
Lee

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Long Term Goals

- Understanding Generalized Storage Aware Routing (GSTAR) protocol

- Implementing multicasting in intra-domain using the Global Name Resolution Service (GNRS)

- Extending GSTAR to support inter-domain routing

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Timing Diagram

TIMING DIAGRAM FOR TRANSMISSION OF 1 CHUNK (10 DATA PACKETS)

Issues:
- 4 Control Messages are exchanged for every chunk transmission
- LSA messages continue to be exchanged throughout the simulation

Possible Solution:
- Increasing the Data Packet Size
- Increasing the Chunk Size

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Future Work

- Perform Throughput Analysis by:
  - Varying Chunk Size
  - Increasing the Packet Size
- Throughput comparison with simple UDP Implementation

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