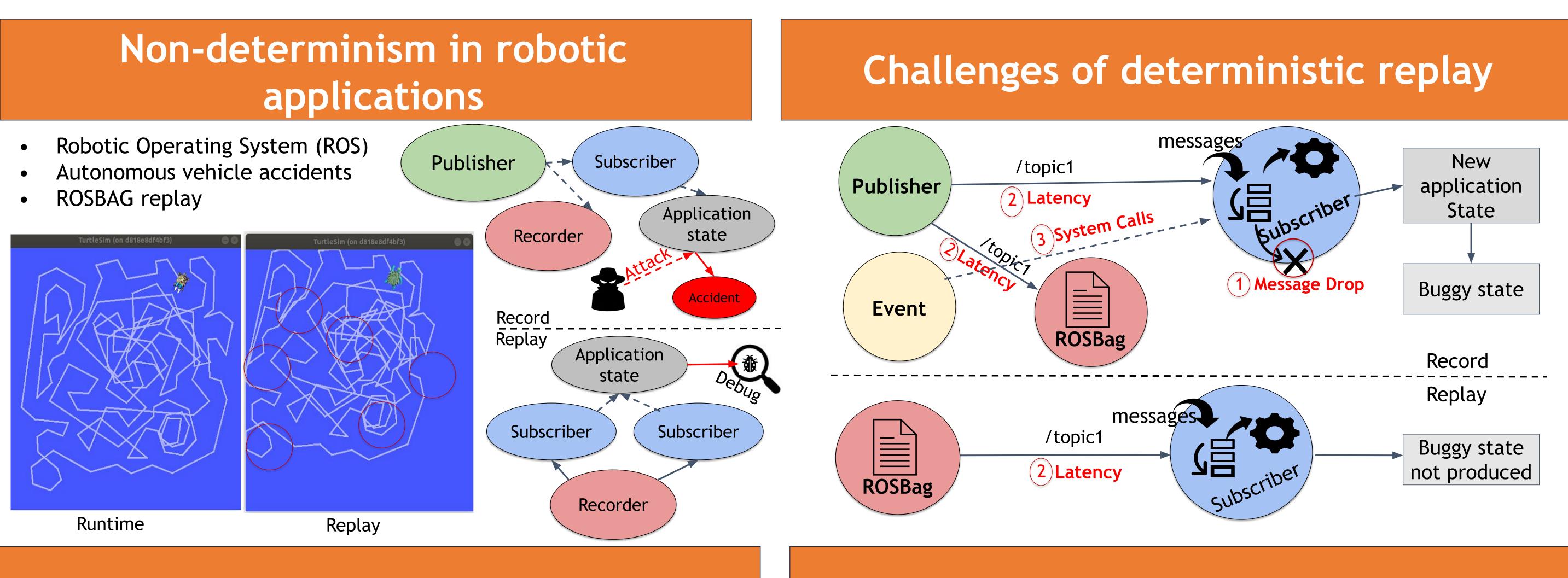
Deterministic Replay and Debugging for Robotic Systems

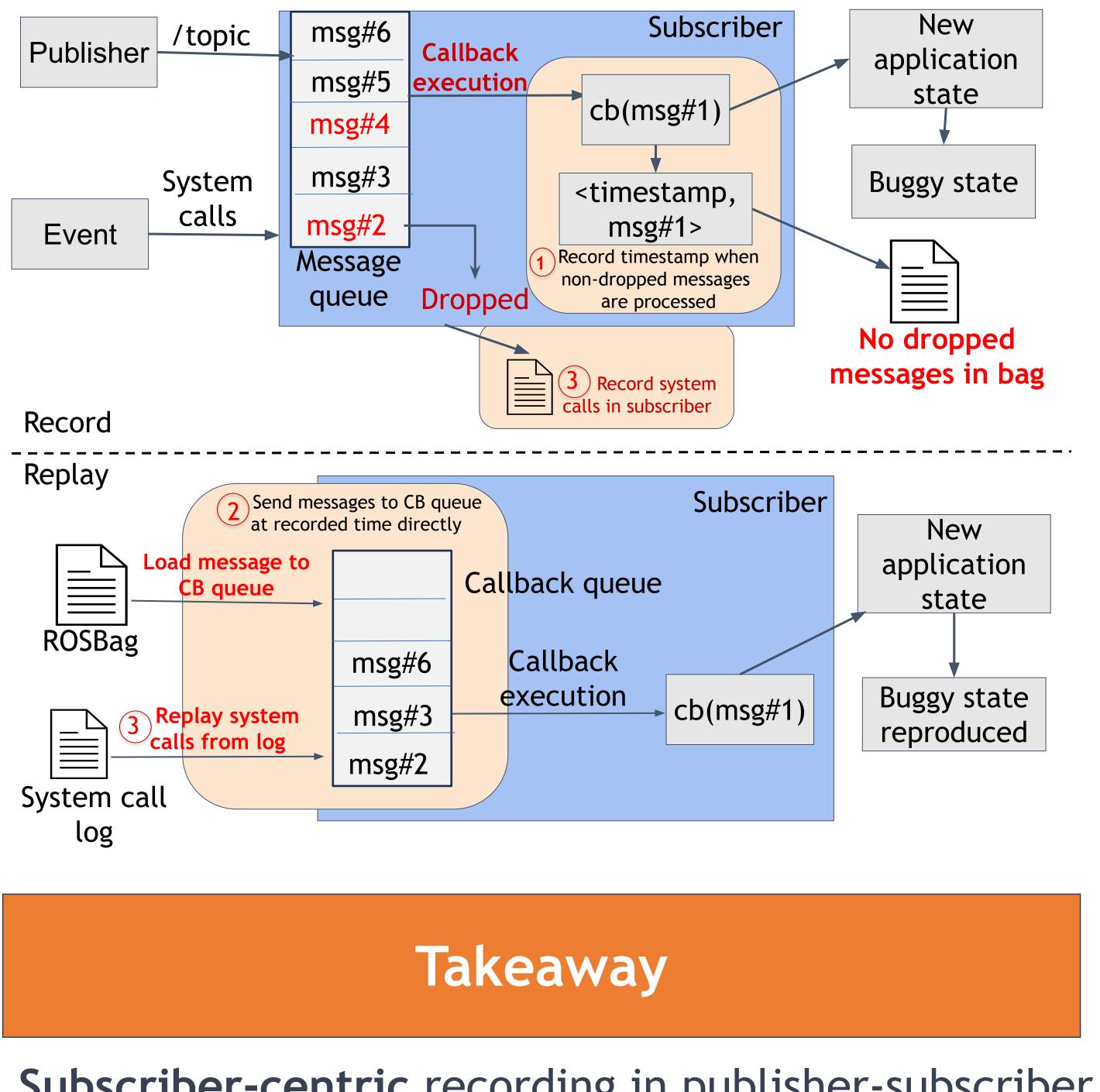
Md Nazmus Sakib, Seungmok Kim^{\$}, Zelun Kong, Seulbae Kim*, Kyu Hyung Lee⁺, Heejo Lee^{\$}, Chung Hwan Kim

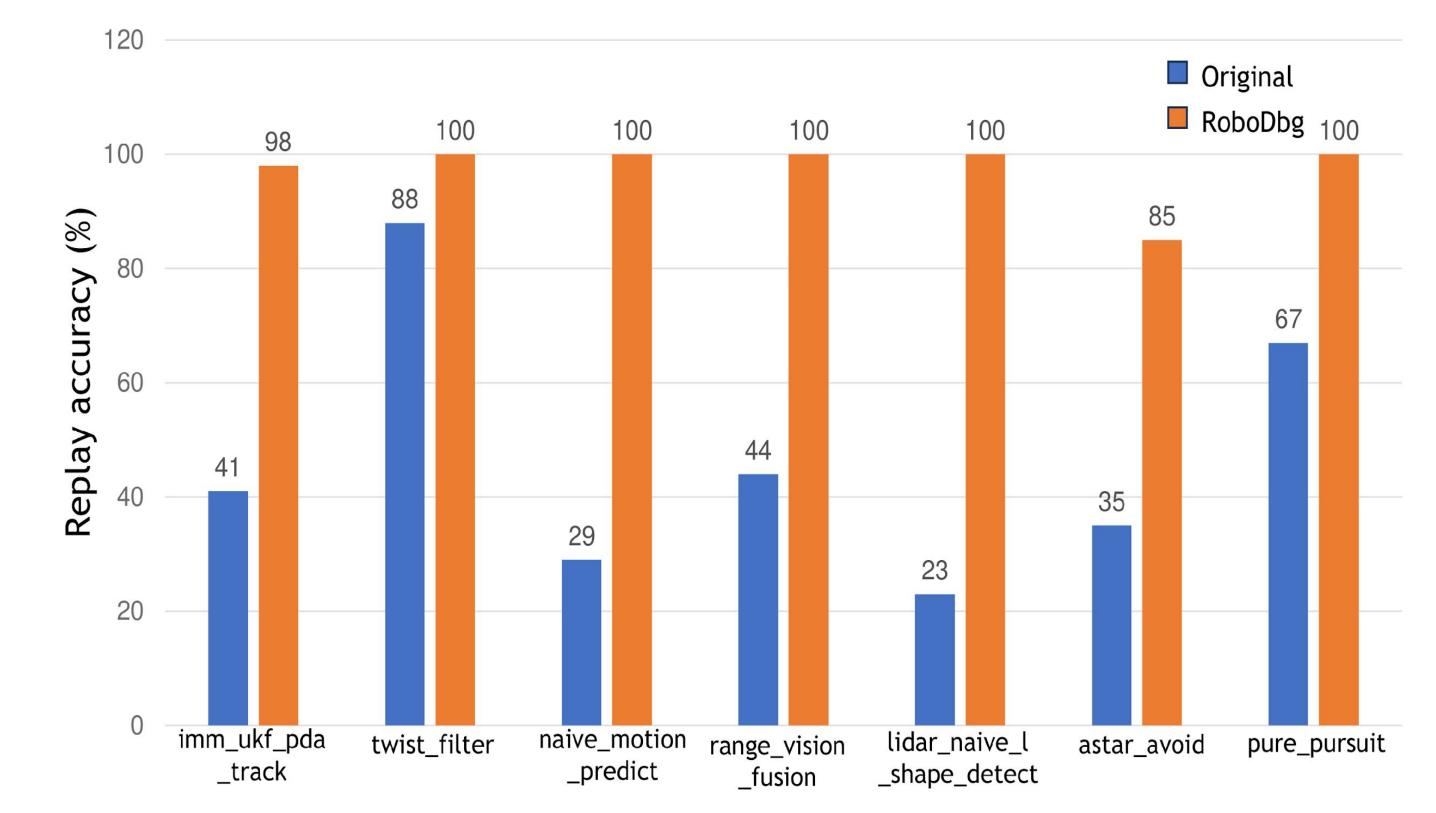
University of Texas at Dallas, Georgia Institute of Technology*, Korea University^{\$}, University of Georgia⁺



RoboDbg Architecture

Preliminary evaluation





- Subscriber-centric recording in publisher-subscriber based robotic application middleware can lead to deterministic replay
- RoboDbg allows for replayability of ROS nodes with

Replay accuracy of RoboDbg compared to the ROS replayer

