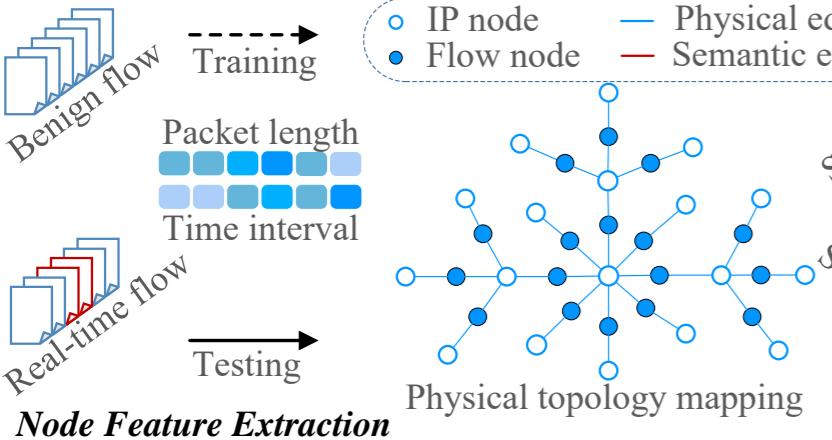
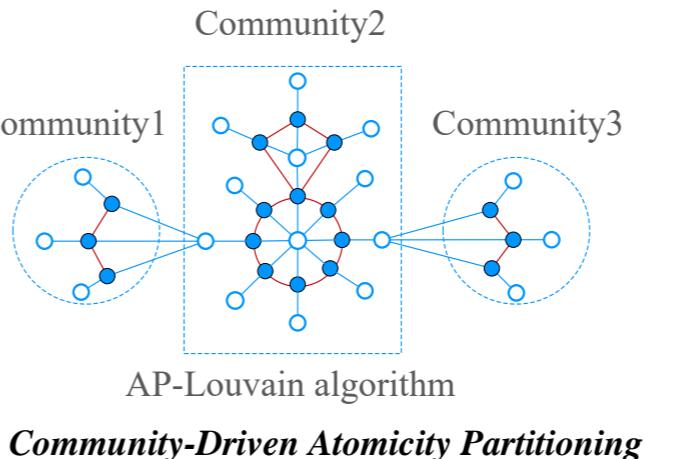
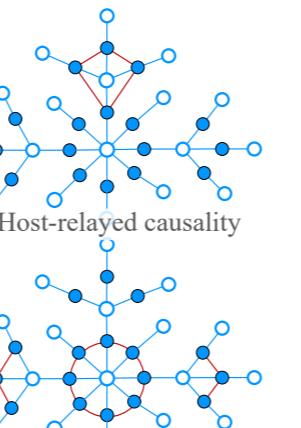


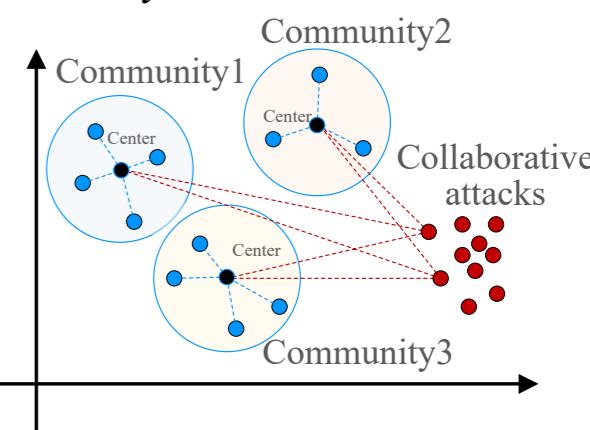
1. Topology-Enhanced Heterogeneous Graph Construction



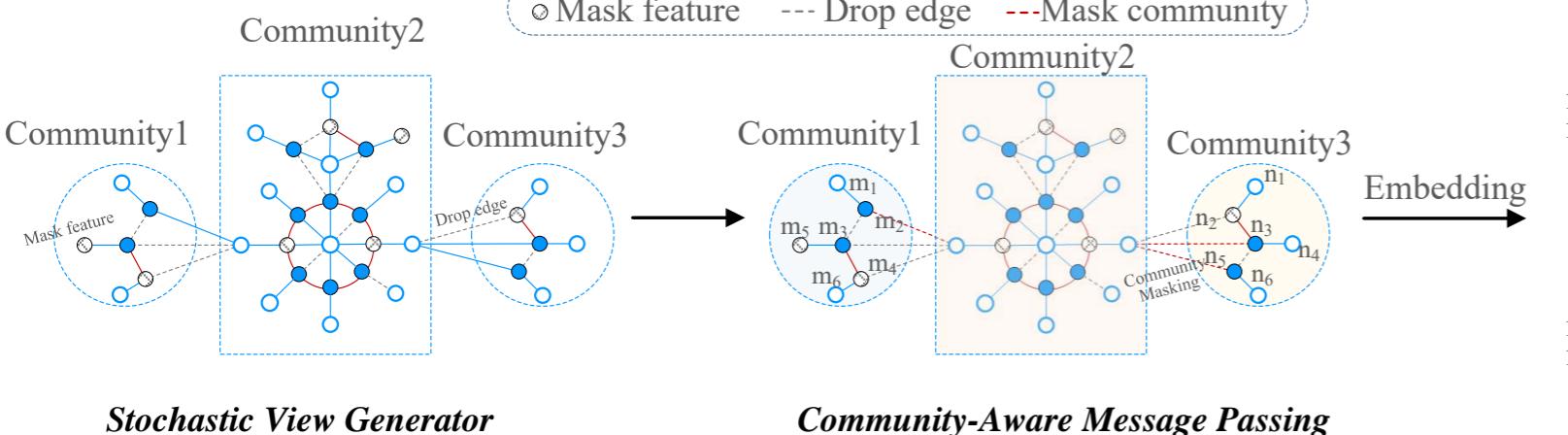
Dual-Strategy Association Mechanism



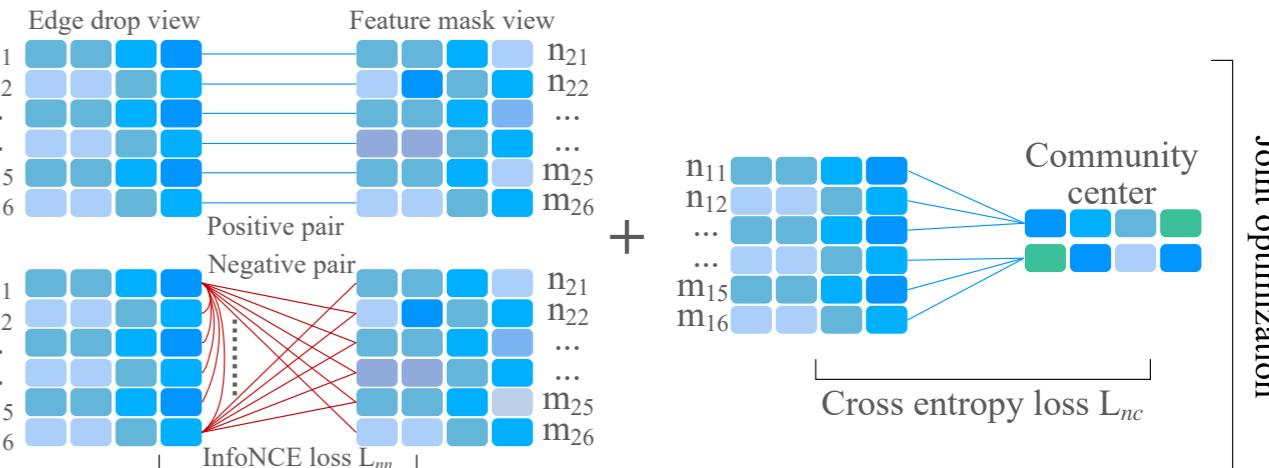
3. Anomaly Detection



2. Atomic-Anchor Graph Neural Network



Dual-Granularity Self-Supervised Optimization



Joint optimization