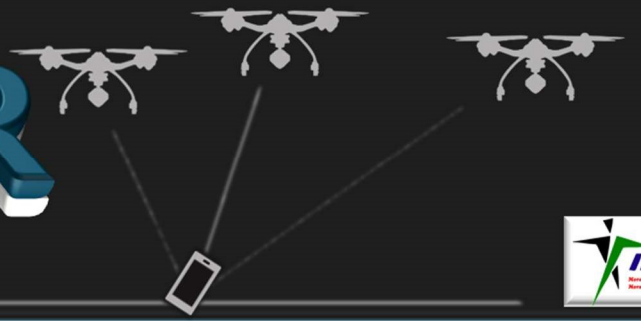


iCOOPER



Intelligent *CO*operative *PER*ception with Information-Centric Networking for Support of Multi-Domain Missions

iCOOPER is a distributed, deep reinforcement learning-based, perception software platform. *iCOOPER* enables Autonomous Vehicles (AVs) and Autonomous Air Vehicles (AAVs) to share 3D point cloud sensory information with other AVs/AAVs and auxiliary nodes, extending view



- With small ad-hoc networks of AAVs provides complete spatial awareness
 - Produces real-time fused LiDAR imagery
- Capable of integrating with any sensor node (e.g. passenger vehicle console) or auxiliary node (e.g. smart phone)
- Leverages information-centric networking
- Performs real-time point cloud streaming compression/decompression
- Works on a 4G, 5G, or WiFi



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