

RAMEN: Real-time Asynchronous Multi-agent Neural Implicit Mapping





RAMEN : Weighted Consensus



Simulated Experiment: Varying Communication



Weighted C-ADMM

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Simulated Experiment: Scalability



Key Points

- Weighted consensus enables multi-agent mapping under severe communication disruptions.
- Simple frequency-based uncertainty is good enough!



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https://iconlab.negarmehr.com/RAMEN