Construction of inverter for low-altitude communication base station

What is a low-altitude network base station planning model?
To address these challenges, we propose a novel low-altitude network base station planning model based on the Proximal Policy Optimization (PPO) algorithm. Our approach involves calculating the low-altitude coverage capabilities of different base station types using ray tracing techniques.

What is a ground base station (GBS)?
With ISAC,the ground base station (GBS) provides communication and navigation services for authorized aircraft,while sensing the low-altitude airspace to monitor unauthorized targets.

How to provide reliable communication services to massive aerial vehicles?
From a technological perspective,providing reliable communication services to massive aerial vehicles requires addressing issues,such as electromagnetic interference and the cooperation with terrestrial communication networks.

How can a decision model be used for base station placement?
We construct a decision model for base station placement and utilize the PPO algorithm to determine optimal base station configurations. Through reinforcement learning training and simulation validation,we demonstrate that our model effectively generates base station deployment plans,achieving predefined signal coverage objectives.

How can a temporary communication beamforming be generated?
In particular,with the first vector in ?a (S(t); ?a),the temporary communication beamforming can be generated via element-wise concatenation,i.e.,the first NM elements are treated as the real parts of individual elements in the temporary communication beamforming and the remaining elements are the corresponding imaginary parts.

Aug 11, 2025 · This paper introduces an integrated sensing and communication (ISAC) network architecture for low-altitude economy (LAE),which encompasses network modeling based on ...

Nov 30, 2024 · The rapid development of low-altitude unmanned aerial vehicles (UAVs) has led to significant communication demands. Leveraging cellular networks to support low-altitude UAV ...

Feb 5, 2019 · Because of its cost-effective and on-demand deployment, low-altitude aerial base stations (BSs) are capable of providing emergency communication services in many ...

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By dynamically multiplexing communication resources, implementing intelligent interference suppression, and enabling collaborative multi-station processing, 5G-A communication ...

Oct 29, 2025 · Based on the integration of 5G communication and sensing and the advantage of mass deployment of 5G base stations, the company makes effective low-altitude UAV ...

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Jan 3, 2025 · Abstract--This paper studies an integrated sensing and com-munications (ISAC) system for low-altitude economy (LAE), where a ground base station (GBS) provides ...

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