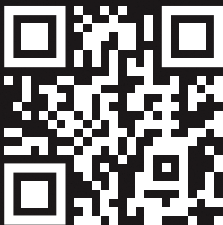# speedy_SKYLAR

UNLEASHING **COMMUNICATION** IN SATELLITE **CONSTELLATIONS**

HELLO,
I'M SKYLAR!
IT'S NICE TO
MEET YOU

SKYLAR IN A NUTSHELL

speedy_SKYLAR is a modular software tool for speeding up communications between satellites in a constellation and to the ground segment. With modules deployed both on-board and on ground, it ensures optimal routing of data packets in satellite constellations.

CONSTELLATIONS LIMITATIONS

While satellite constellations feature tens of assets to ensure continuous coverage of our planet, they may still be prone to delays and disruptions in communications.
speedy_SKYLAR finds the optimal route to relay information across the fleet, so that it can easily reach Earth and the other assets in the constellation,

GROUND MODULE

+ Fully automated
+ Computes network topology
+ Drafts a list of optimal routes
+ Easy to integrate into physical or cloud infrastructures

ON-BOARD MODULE

+ Deployed on each satellite
+ Assesses link availability
+ Selects locally optimal paths
+ Assigns priority to data packets

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