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Radar for Space Observation

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In today's world, near-Earth space constitutes an increasingly congested and contested theater of economic, political, and military activities for a growing number of space-faring nations. Consequently, the significance of actionable situational awareness cannot be overstated. Radar, renowned for its versatility and precision, is an indispensable tool for tracking the trajectories of satellites and space debris, thus contributing to the protection of critical infrastructure. Radar systems provide crucial data that underpin space domain awareness (SDA), space safety, and planetary defense. This Reprint serves as a platform for disseminating innovative research and fostering collaboration within this vital field, underscoring how innovative radar technology contributes to safer, more effective operations in increasingly crowded orbits.

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