

Collocation Assessment between GEO and GSO Satellites

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Abstract : The change in orbit evolution between collocated satellites (X, Y) inside $\pm 0.09^\circ$ E/W and $\pm 0.07^\circ$ N/S cluster, after one of these satellites is placed in an inclined orbit (satellite X) and the effect of this change in the collocation safety inside the cluster window has been studied and evaluated. Several collocation scenarios had been studied in order to adjust the location of both satellites inside their cluster to maximize the separation between them and safe the mission.

Keywords : satellite, GEO, collocation, risk assessment

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