



GPS/GNSS RESIDUAL ANALYSIS VIA COMPETITIVE-GROWTH MODELING OF IONOSPHERE DYNAMICS (WedAmOR4)

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✳ **Abstract :** A method is presented for estimating dynamic behavior of clock bias of GPS/GNSS signals. By balancing charge-carrier populations in solar-terrestrial system, a competitive growth model is introduced to formulate ionosphere dynamics. The model is adapted under the constraint of the Volterra's principle to restore the positioning residual.