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

Author(s) : Kohji Kamejima (Osaka Institute of Technology, Japan)

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.