



Proceedings¹

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Giffet and/or Dr. Progri's work are/is recognized by 63 conference proceedings authors.

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¹ This is *Giffet Recognition from Premier Conferences Proceedings*; for more information, please visit [Personnel](http://giffet.com/personnel.html) <http://giffet.com/personnel.html> page. *Last updated on May. 15, 2023.*



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ⁱ Additional simulation work performed by Upadhyay et al in support of the automated rendezvous and docking studies for NASA. There two stage relative navigation scheme consists of a meter-level filter and centimeter-level filter. The meter-level generates smoothed absolute and orbit estimates for two vehicles using GPS pseudorange and either Doppler or range-rate. The centimeter-level filter refines the relative state estimates by solving for the double-difference carrier-phase ambiguities. Hardware-in-the loop tests for the meter-level filter produces RSS relative position and velocity errors of 0.887 m and 0.8 cm/s, respectively. Results from software simulated data on the centimeter-level filter show relative RSS accuracies of 0.11 m in position and 1 cm/s in velocities. (The centimeter-level filter that Ph.D. student @ilirprogri designed was perhaps one of the best in the world in year 1999-2000!)