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SPACE DEBRIS EVENTS ANALYSIS PLATFORM AND ITS APPLICATION

Abstract

In recent years, a number of space emergencies had happened , such as collision, breakup, reentry and maneuver event etc. And large satellite reentry events raised public concern, especially satellite collision and satellite breakup events producing a lot of space debris, which are been threatening orbital spacecraft safety. Therefore, the SEAP (space debris events analysis platform) is developed to analyze and deal with over 20 space events in recent 5 years. This paper introduces main functions of the SEAP, the characteristics of the service oriented software framework, kernel calculation library and describes the application of SEAP in the discovery, confirmation, analysis and response of the space events. As an example, the breakup event of NOAA 16 (which happened in December 2015) will be discussed.