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Achieving Higher-Fidelity Conjunction Analyses Using Cryptography to Improve Information Sharing

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RAND Corporation, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. This report examines the feasibility of using modern cryptographic tools to improve space situational awareness. Specifically, the authors examine the applicability of secure multi-party computation (MPC) protocols as a means to compute the collision probability of two satellites. MPC protocols would provide satellite operators with a way to compute such conjunction analyses while maintaining the privacy of each operator s orbital information.

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