

# Precise Orbit Determination: A Quick Survey

Daniel Topa  
daniel.topa@hii.com

*Huntington Ingalls Industries Mission Technologies*

December 5, 2024

What are the current limits on the precision in computing and measuring a satellite's location? A quick literature search outlined here shows sub-meter resolution, and in some cases, centimeter resolution. This report should be read as a gateway to the literature.

## Contents

<b>1 Introduction</b>	<b>1</b>
[huang2017real]	

## 1 Introduction

The determination of a satellite's precise orbit is crucial for various applications, from Earth observation to deep-space exploration. Recent advances in orbit determination techniques are quickly surveyed, and key findings are highlighted.