1. **Introduction**

In the history of software engineering, engineers have constantly searched for a method that could completely solve the challenges of software development. However, in 1986, renowned computer scientist Fred Brooks presented a groundbreaking view in his paper *"No Silver Bullet: Essence and Accidents of Software Engineering"*: there will be no single technology or method capable of increasing software development productivity by an order of magnitude.

A "silver bullet" refers to a mythical weapon that can instantly eliminate all problems with a single shot. The idea of "no silver bullet" means that in software development, there is no magic solution that can instantly remove all difficulties or dramatically improve efficiency. Fred Brooks argued that the greatest challenges in software development stem from the inherent complexity of the problems themselves, not from the limitations of implementation tools. This viewpoint has remained highly influential and is widely regarded as a foundational theory for understanding the true nature of software engineering.