

Aircraft Performance Analysis in Conceptual Design Phase based on System-of-Systems Simulations

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Abstract. To obtain a competitive design in aircraft conceptual design phase, this paper propose an aircraft performance analysis method based on system-of-systems (SoS) simulations. The analysis process includes design space exploration and mission effectiveness analysis and the stochastic nature in SoS mission is captured based on a Monte Carlo method. Meanwhile as an example, the performance of UAVs which are applied in earthquake search and rescue SoS is analysed based on SoS simulations. The results show that the level of aircraft performance which leads to an optimum SoS effectiveness could be designed below the maximum performance. And it is necessary to apply SoS simulations into aircraft conceptual design phase to help designers optimize aircraft performance.

1 Introduction

In the past, the top-down decisions about aircraft performance parameters in conceptual design phase are usually made by chief engineers based on their experience, intuition and judgment [1]. And the value of original target design parameters are often set according to the existing aircraft or systems. To some degree, the design space exploration, parameter optimization and life-cycle cost are neglected, often leading to substantially unnecessary time and cost [2, 3]. Meanwhile, as the complexity in the fields of civil and military aviation is continuously increasing, aircraft usually carry out large system-of-systems (SoS) missions which make aircraft performance design more complicated due to the competition of different systems. So performance parameters should be analysed in depth.

The concept of SoS was first proposed in 1956 [4], but it was not until 1989 that SoS was introduced to engineering application [5]. It are usually made up of a multitude of independent but interactive systems. In recent years, this field has been growing significantly and SoS theory has been applied in many aeronautical engineering problems, such as air strike [6, 7], civilian transportation [8, 9] and so on. Different methods have also been applied to deal with these SoS problems, such as surrogate models [6, 7], mixed integer nonlinear programming [8], network theory [9], Agent [10], etc. Although there is still a lack of a common definition in the primary stage of SoS theory [10], the characteristics proposed by Maier [11] have been widely recognized, i.e., emergent behaviour, evolutionary development, operational independence of the elements, managerial independence of the elements and geographic distribution. The first two characteristics could also be found in systems because systems are established to acquire new capacity. However, the latter three characteristics are

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