

AEROSPACE APPLICATIONS OF SOFT COMPUTING AND INTERVAL COMPUTATIONS (WITH AN EMPHASIS ON MULTI-SPECTRAL SATELLITE IMAGING)

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ABSTRACT

This paper presents a brief overview of our research in applications of soft computing and interval computations to aerospace problems, with a special emphasis on multi-spectral satellite imaging.

KEYWORDS: Soft computing, interval computations, aerospace applications

INTRODUCTION: DATA PROCESSING AND INTERVAL COMPUTATIONS

Data processing

In many real-life problems, we are interested in the value y of a physical quantity which is *difficult* or *impossible* to measure directly. For example, we cannot directly measure the distance to a star, or the amount of oil in a given area. To measure this quantity y , we:

- measure some other quantities $x_1, \dots, x_n$ which are related to y by a known dependence $y = f(x_1, \dots, x_n)$, and then
- compute the estimate $\bar{y}$ for the desired quantity y by applying the algorithm f to the results $\bar{x}_i$ of measuring the quantities x_i : $\bar{y} = f(\bar{x}_1, \dots, \bar{x}_n)$.

This two-stage process is called *indirect measurement*, and computing f is called *data processing*.

Applications Of Interval Computations

LP Steffe



Applications Of Interval Computations:

Adopting the Melody of Phrase: An Mental Symphony within **Applications Of Interval Computations**

In a global eaten by screens and the ceaseless chatter of fast transmission, the melodic beauty and emotional symphony created by the published word often fade into the backdrop, eclipsed by the constant sound and disruptions that permeate our lives. But, nestled within the pages of **Applications Of Interval Computations** an enchanting literary prize overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this captivating masterpiece conducts readers on a mental trip, skillfully unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths of this poignant review, we will examine the book is central harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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