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## APPLICATIONS OF INTERVAL COMPUTATIONS: AN INTRODUCTION

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### ABSTRACT

The main goal of this introduction is to make the book more accessible to readers who are not familiar with interval computations: to beginning graduate students, to researchers from related fields, etc. With this goal in mind, this introduction describes the basic ideas behind interval computations and behind the applications of interval computations that are surveyed in the book.

### 1 WHAT ARE INTERVAL COMPUTATIONS?

*The Majority Of Real-Life Application Problems Lead  
To (Constrained Or Unconstrained) Global  
Optimization*

In a typical real-life application problem, we need to find an alternative  $x$  that satisfies given constraints and that optimizes the value of a given characteristic  $y = f(x)$  (the optimized function  $f(x)$  is usually called an *objective function*). For example:

- in *data processing*, we must find a model  $x$  that best fits the known data; in this case,  $f(x)$  describes how well  $x$  fits;

# Applications Of Interval Computations

**Padhraic Smyth**



## **Applications Of Interval Computations:**

## Unveiling the Magic of Words: A Overview of "**Applications Of Interval Computations**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Applications Of Interval Computations**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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