



## New Advances in High-Dimensional and Non-asymptotic Statistics

Guest Editors:

**Dr. Huiming Zhang**

1. Institute of Artificial Intelligence, Beihang University, Beijing 100083, China  
2. Zhuhai UM Science & Technology Research Institute, Zhuhai 519015, China

**Prof. Dr. Ting Yan**

School of Mathematics and Statistics, Central China Normal University, Wuhan 430079, China

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### Message from the Guest Editors

With the appearance of high-throughput data, statistical models of complex data, such as high-dimensional data, have enhanced one of the hot research directions in modern statistical research. Recently, computer scientists in machine learning have renewed interest in analyzing the rigorous error bounds with high probability for the desired learning procedure when the sample size of data is small. These settings motivated modern statisticians and data scientists to shift their interest from asymptotic analysis to non-asymptotic analysis.

The primary goal of this Special Issue is to collect the recent new and novel results on high-dimensional statistics, non-asymptotic inference, concentration inequalities, and small sample learning, in which the theory must be based on the non-asymptotic properties of the proposed estimator. **The purely asymptotic results are not an interest for this Special Issue.** This Special Issue also aims at publishing new advances and applications of small sample inference, exact confidence interval, exact test and uncertainty quantification for statistical models.





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## Editor-in-Chief

**Prof. Dr. Francisco Chiclana**  
School of Computer Science and  
Informatics, De Montfort  
University, The Gateway,  
Leicester LE1 9BH, UK

## Message from the Editor-in-Chief

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*Mathematics* Editorial Office  
MDPI, Grosspeteranlage 5  
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