# Special Issue

# Statistical Approaches in Construction Management: Innovations and Applications

**Message from the Guest Editors**

This Special Issue of *Buildings* seeks to explore the diverse applications of statistical methods in construction management. We are looking for original, high-quality papers that discuss case studies, theoretical explorations, and practical applications in the field. Submissions should focus on, but are not limited to, the following areas:

- The application of statistical techniques in construction project forecasting and planning.
- Risk assessment and management in construction projects using statistical models.
- Use of statistical methods in cost estimation and control.
- Quality assurance and performance evaluation in construction management.
- Big data analytics in construction project management.
- Statistical approaches to sustainable construction and green building practices.
- Case studies showcasing the successful integration of statistical methods in construction projects.

We welcome contributions from researchers, practitioners, and professionals who are working at the forefront of this exciting intersection of construction management and statistics. Descriptive papers that address real-world applications and innovative approaches are particularly welcome.

**Guest Editors**

Prof. Dr. Huihua Chen

Dr. Hongyan Yan

Dr. Zheng He

**Deadline for manuscript submissions**

closed (20 May 2025)

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# About the Journal

### Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

### Editor-in-Chief

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indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

**Journal Rank:**

JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

**Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).