Special Issue on Spatial Information and Digital Twins for Built Environment Development

Preface

The rapid advancement of digital twin technology continues to reshape the landscape of built environment development. As a pivotal component of smart cities and infrastructure management, digital twins integrate real-time spatial information with dynamic data analytics, enabling enhanced decision-making and predictive capabilities.

Building upon the foundation established in the first volume of this special issue series, this second installment further explores the interdisciplinary applications and technical advancements of spatial information and digital twins. The selected papers in this issue cover a broad range of topics, from innovative data acquisition methods to advanced simulation techniques, all aimed at optimizing urban planning, construction, and operational efficiency.

This special issue comprises 7 high-quality papers contributed by leading researchers and practitioners in the field. Their collective efforts underscore the growing significance of digital twin technology in addressing contemporary challenges related to sustainable development, disaster management, and smart infrastructure.

We extend our heartfelt appreciation to all the authors for their valuable contributions and to the reviewers for their diligent efforts in maintaining the quality of this publication. Additionally, we are deeply grateful to Ms. Momoko Kawamura of MYU K.K. for her invaluable assistance throughout the publishing process.

We hope that the insights presented in this special issue will inspire further research and innovation in the domain of spatial information and digital twins for built environment development.

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