Special Issue

Promoting Construction Worker Professionalization under Industry 4.0

Message from the Guest Editors

As a traditional labor-intensive industry, construction is facing severe challenges from workforce aging, high turnover, labor shortages, and low skill level among construction workers. Particularly under the background of industry 4.0, the present workforce market cannot meet the needs of the future transformation development of the construction industry. This Special Issue of Buildings offers a platform for promoting construction worker professionalization under industry 4.0. We encourage researchers, practitioners, and scientists to submit original research articles, case studies, reviews, critical perspectives, and viewpoint articles on topics including, but not limited to:

- Advancements in construction worker professionalization;
- Critical factors of construction worker professionalization;
- Influence mechanisms of construction worker professionalization;
- Strategic analysis and planning of construction worker professionalization;
- Policy simulation of construction worker professionalization;
- Data-driven methods for promoting construction worker professionalization.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2023)

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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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