Sustainable Rural Development: Advances on Rural Digitization and Smart Village Construction

Guest Editors:

Dr. Meimei Wang
College of Earth and Environmental Sciences, Lanzhou University, Lanzhou 730000, China

Dr. Zihan Cai
School of Architecture and Artistic Design, Hebei University of Technology, Tianjin 300130, China

Sidong Zhao
School of Architecture, Southeast University, Nanjing 211189, China

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Message from the Guest Editors

Dear colleagues,

With the rise of Smart Earth, both urban and rural areas have been undergoing global digital development. This is made possible by the use of cutting-edge technologies like big data, cloud computing, artificial intelligence, and the Internet of Things. As digital cities and smart cities become more advanced, there is now an important opportunity for traditional villages to undergo a digital revolution and development. This has led to the trend of constructing digital villages and smart villages. Therefore, we are seeking original research articles that focus on rural sustainability and planning, with an emphasis on rural digitization and smart village construction. We welcome contributions on various topics, including the opportunities and challenges of rural digitization, planning and construction of digital and smart villages, integration of digital villages and smart cities, rural infrastructure construction, application of new technologies in rural areas, evaluation and response strategies for rurality and sustainability, population and land use changes, and many more. We look forward to your contributions.

Best regards,

Guest Editors

Special Issue

Editor-in-Chief

Prof. Dr. David Arditi
Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

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.

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