

Contents

Part I Sustainable Urbanization

1	SWOT Analysis for In Situ Urbanization in the Southeast of Chongqing	3
	Yajun Cai, Yilong Zhang and Huanhuan Wu	
2	Urban Management Mode and the Choice Under the Trend of New Urbanization	13
	Ling Zhou and Yuzhe Wu	
3	Impact on the Scale Efficiency of Urban Land Caused by Floating Population: Based on DEA Framework	23
	Jiaojiao Luo and Yuzhe Wu	
4	In-Situ Urbanization in Tourism-Oriented Towns in China's Southwest Mountainous Area: A Case Study of Yongxin Town	37
	Qi Sun	
5	Types, Settlements and Spatial Distribution of Chinese Senior Caring Institutions—A Case Study of Beijing	47
	Xiaolu Dou and Changchun Feng	
6	Application of Modified Statistical Triangle of Accident Causation in Construction Health and Safety	57
	Z. Mustapha, C.O. Aigbavboa and W.D. Thwala	
7	Research on New-Style Urbanization Model in Hainan Province Under the Background of International Tourism Island	67
	Qiaolin Luan and Shichuan Wei	

8	Review and Prospects of Research on Tourism Urbanization . . .	79
	Shichuan Wei and Dan Cui	
9	Gap Analysis of Pune City's Urban Infrastructure—Issues in Sustaining the Sprawl	87
	Mona N. Shah and Shekhar Nagargoje	
 Part II Sustainable Construction		
10	Photovoltaic Solar Systems for Residential Dwellings	105
	Vivian W.Y. Tam	
11	Defining Green Road Infrastructure Projects—A Critical Review	125
	Peng Wu, Bo Xia, Xianbo Zhao and Josua Pienaar	
12	Measuring Sustainability Performance Within the Australian Energy Industry	135
	Nayana Dissanayake, Bo Xia and Peng Wu	
13	Exploring Key Contributors to Achieving Sustainability in Infrastructure Projects: A Critical Review	145
	Xiaohua Jin, Jian Zuo, Yingbin Feng and Peng Wu	
14	A Comparison Study of C&D Waste Management in Shenzhen and Hong Kong: A SWOT Perspective	157
	Zhikun Ding, Yifei Wang, Hongtao Wang and Jiayuan Wang	
15	Sustainable Construction Trends in Journal Papers	169
	Bo Xia, Jian Zuo, Peng Wu and Yongjian Ke	
16	Quantification of the Carbon Emission of Road and Highway Construction in China Using Streamlined LCA	181
	Huabo Duan and Jiayuan Wang	
17	Decomposition of Energy-Induced Carbon Emissions in the Construction Industry of China	193
	Dezhi Li, Yujie Lu, Bo Zhang and Peng Cui	
18	Analysis of Factors Influencing the Performance of HVAC Retrofits	205
	Shuo Chen, Guomin Zhang and Sujeeva Setunge	

19	Identification of Risk Factors Influencing the Implementation of Industrialized Building System in China	219
	Chao Mao, Liyin Shen, Lizi Luo and Zhengdao Li	
20	Initial Tradable Emission Permit Allocation of Civil Airport Based on DEA Model	231
	Feng Lyu and Jan-guo Chen	
21	Research on Cognition of Green Building in Chongqing	245
	Huilin Shao	
22	Exploration on Sustainable Construction of University Campus: An Analysis Based on Evaluation on Campus Environment of Zhejiang University	253
	Jiahui Shen, Yuzhe Wu and Xiaoling Zhang	
23	Analysis on the Effectiveness of Implementing Green Construction Guidelines	263
	Zhiyu Huang, Yanyan Ke and Mingxue Ma	
24	Theoretical Exploration of Construction Site Management Practices.	279
	N.N.F. Dube, C.O. Aigbavboa and W.D. Thwala	
25	Are Green Project Management Practices Applicable to Traditional Projects?.	291
	Andrew Hand, Jian Zuo, Bo Xia, Xiaohua Jin and Peng Wu	
26	Case Study on CO₂ Emission by Construction of Structural Elements of a Residential Project in Singapore.	303
	Yingbin Feng and Yun Zhong	
27	Impediments to Implementing Design for Construction Safety	313
	Xuehao Yu, Chun Qing Li and Guomin Zhang	
28	Environmental Emissions of Construction Equipment Usage in Pile Foundation Construction Process—A Case Study.	327
	Malindu Sandanayake, Guomin Zhang, Sujeeva Setunge and Chris Malcolm Thomas	

29	Application of Energy Performance Contracting in the Greener Government Buildings Program in Victoria: Incentives, Barriers and Strategies.	341
	Guomin Zhang, Xiao-hua Jin and Malik Khalfan	
30	Payback Period Based Prioritization of Building Retrofit Technologies: An Innovative Use of Critical Path Method.	357
	Anthony Ziem, Sujeeva Setunge and Guomin Zhang	
31	Measuring Competition Degree of Building Maintenance Market in Hong Kong: A Conceptual Model	369
	Yuhan Niu, Weisheng Lu and K.W. Chau	
32	Country Review on the Main Building Energy-Efficiency Policy Instrument	379
	Bei He, Liudan Jiao, Xiangnan Song, Liyin Shen and Bo Xiong	
33	Ethical Decision-Making of Engineering Based on Sustainability	397
	Lifei Wang, Shuhua Shao, Xiao Wang and Yuanchao Zhang	
34	Research on the Measurement on Carbon Emissions for Industrialized Buildings	407
	Yingbo Ji, Yiwei Wang and Xiaotong Li	
 Part III Urban Construction and Management		
35	The Spatial Distribution and Utilization Characteristics and Its Driving Mechanism of Urban Office Building in Ningbo City	421
	Yu Cao, Cifang Wu and Yan Zhu	
36	Project Management of Urban Infrastructure Projects—Indian Scenario	439
	Vanita Ahuja	
37	Research on Cost Estimation of Highway Project Based on the GA-BP Algorithm.	451
	Yilong Zhang, Yajun Cai and Huanhuan Wu	

38	The Aging Community Management and Service Mode—"AMS" Community Management and Service Mode	463
	Dongmei Huangfu and Wandi Liu	
39	Study on Success Factors of Sustainable Urban Renewal	473
	Taozhi Zhuang, Pengpeng Xu and Fan Wang	
40	Study on the Correlation Between Urbanization and Economic Development, Real Estate Market in Xi'an.	483
	Donglang Yang, Tianzhe Li and Yiqi Li	
41	A Quantitative Approach for Identifying Adaptive Reuse Option for Industrial Buildings	495
	Yongtao Tan, Liyin Shen and Craig Langston	
42	Transformation of Urban Villages in Nanjing Based on Urban Spatial Structure.	507
	Yang Xiao, Ma Xin and Yang Jun	
 Part IV Affordable Housing		
43	Jobs-Housing Spatial Mismatch Condition in Public Rental Housing in Chongqing, China.	521
	Lizi Luo and Deheng Zeng	
44	Qualitative Effect Analysis of Chinese and South Korean Housing Policies: Taking the Policy on Stimulating Market, Stabilizing Price and Refraining Speculation as Examples.	531
	Hyungu G. Roh and Cifang F. Wu	
45	Housing Affordability Among Potential Buyers in the City of Kuala Lumpur, Malaysia	547
	Aminah Md Yusof, Chang Saar Chai and Julaida Johan	
46	Sustainable Supply Model Design of Public Rental Housing—Case Study of Chongqing	557
	Xiao Li, Xiang Gu, Yue Teng and Pan Li	
47	Theoretical Analysis in Supply System of Public Rental Housing.	569
	Yue Teng, Xiao Li, Ling Li, Xiazhi Fang and Bo Xu	

48	A Model for Replacing Public Rental Housing Based on the Extension Theory	581
	Li Yan, Kunhui Ye and Lili Wang	
49	Temporal and Spatial Variation of Housing Affordability in China	595
	Huachao Qian, Xin Ma, Qi Wang and Chen Liu	
50	A Panel Data Analysis on the Relationship Between Supply of Affordable Housing and Housing Prices	607
	Pu Xiaotian and Yang Jun	
51	Analysis of Housing Price Factors Based on the Market Players' Behavior—Taking Beijing as an Example	617
	Xiao Li	
52	Urbanization and Development of Housing Market: Facts in China	627
	Yi-fan Zhang	
 Part V Urban Land Development and Utilization		
53	Study on the Compiling Pattern and Overall Concept of Territory Spatial Planning in Hangzhou.	641
	Chen Jiang, Yuzhe Wu, Linjie Yang and Wenzhe Yue	
54	Study on Land Price and Its Influencing Factors in Yangling District.	653
	Donglang Yang, Zhiyong Hou and Baohua Huang	
55	The Influence Factor of Low-Carbon Urban Construction Land Use in Tourism City Based on PCA Analysis: A Case Study of Hangzhou City	667
	Shen Ping, Wu Cifang, Wang Zhenjian, Lv Tiangui and You Heyuan	
56	Exploring the Way of TDR in Urban Ecological Controlling Zone: A Case Study of Jingui Community in Shenzhen	679
	Tianjiao Li and Changchun Feng	
57	Study on the Spatial Differentiation and Temporal Evolution of Urban Land Price: Evidence from Beijing	693
	Lin Gan and Chang-chun Feng	

Part VI Management for Large Infrastructure Projects

58	Customer Investment Strategies Developed with the Benefit of Hindsight: Pre-contract Award Performance and Critical Success Factors for New Development Projects . . .	709
	John Douglas Thomson	
59	The X Factor Investigation of a Price Cap Regulation of Infrastructure Under Public-Private Partnerships	725
	Suxia Gao and Zhitao Ren	
60	Developing Capabilities for Public Construction Clients	737
	Abderisak Adam, Göran Lindahl and Per-Erik Josephson	
61	Implications of Cost Overruns and Time Delays on Major Public Construction Projects	747
	Abderisak Adam, Per-Erik Josephson and Göran Lindahl	
62	Principal Agent Problems Evident in Chinese PPP Infrastructure Projects	759
	Asheem Shrestha and Igor Martek	
63	Evolutionary Game Analysis and Countermeasure Study of Construction Enterprises Safety Supervision in China	771
	Xueqin Zeng and Jianguo Chen	
64	A Constructivist Orientation to Effectively Align VfM Objectives in PPP Infrastructure Projects	787
	Christy P. Gomez and Muhammad M. Gambo	
65	An Attempt to Apply Vulnerability for Quantifying Risks in Public Private Partnership Projects	799
	Tielan Teng, Qiming Li, Jingfeng Yuan and Xiaopeng Deng	

Part VII Green Construction Materials and Construction Waste Management

66	Causal Relationship Analysis of the Impact of Prefabrication on Construction Waste Reduction	811
	Huanyu Wu, Jiayuan Wang and Wenmin Huang	

67	Disparity of Willingness-to-Pay and Ought-to-Pay for Construction Waste in Hong Kong: A Conceptual Model	823
	Yi Peng, Weisheng Lu and Ke Chen	
68	Legislative Framework for the Construction and Demolition Landfill in Western Regions of China—A Critical Analysis. . .	835
	Jian Zuo, Hongping Yuan and Hongwei Sun	
69	Construction Waste Generation Rate (WGR) Revisited: A Big Data Approach	843
	Xi Chen, Weisheng Lu, Meng Ye and Liyin Shen	
70	Life Cycle Costs of Metal Roof, Concrete Tile Roof and the Intelligent Cooling Roof	855
	Min Wu, Guangwei Chen, Peter Davis, Willy Sher, John Smolders, Shuo Chen, Zhidan Qin, Zhou Yan and Ying Wang	
71	Predicting Contractor's Behavior Toward Construction and Demolition Waste Management.	869
	Ze Zhou Wu, Ann T.W. Yu and Yigang Wei	
 Part VIII Development and Management for Mountainous Towns		
72	Distribution and Determinants of Housing Prices in Polycentric Mountainous Cities: The Case of Chongqing	879
	Meng-Wei Wang, Yong Liu and Xiu-Hua Liu	
 Part IX Advancement of Construction Project Management		
73	Why Continuous Improvement Program Fails—Lessons from the Toyota Production System	893
	Peng Wu, Yingbin Feng and Xiaohua Jin	
74	Understanding Enterprise Risk Management Maturity in Construction Firms	905
	Xianbo Zhao, Bon-Gang Hwang and Sui Pheng Low	

75	Enterprise Risk Management in Construction Firms: A Proposed Implementation Framework	917
	Xianbo Zhao, Bon-Gang Hwang and Sui Pheng Low	
76	Game Theory Analysis on Credit Management of Personnel Qualification in Construction Market in Hainan	925
	Chunjing Shang, Chang Xing and Xueqing Wang	
77	Managers and Craftsmen Perceptions of Operational Strategies Based on Lean Philosophy: The Case of a Large Swedish Construction Company	935
	Jonathan Dahl, David Nordgren and Per-Erik Josephson	
78	External Factors Affecting Managers' Safety Risk Perception in Construction Projects Decision Making	949
	Pengpeng Li, Jiayuan Wang and Jiang Wu	
79	The International Entrepreneurial Dynamics of Pakistani Transnational Contractors.	961
	Ahsen Maqsoom and Chotchai Charoenngam	
80	Research on Project Cost of Overseas Power Plant—Take Acompany's X Power Plant Project for Example	971
	Mingxuan Yu, Chunpeng Li and Lingyun Wei	
81	The Determinants for Safety Behaviors of Migrant Construction Workers.	983
	Jing Zhang, Jie Li and Jian Zuo	

Part X Redevelopment in Disaster Areas

82	The Reconstruction of Victims' Psychological Space and Life Inertia of Urban Residents in Beichuan County and Dujiangyan City After Wenchuan Earthquake—From the Perspective of Bridging Culture Lag	1001
	Lin Wang, Hui Xu and Lifang Huang	

Part XI Law and Policies for Construction and Real Estate

83	Problems and Solutions About Local Standard Informatization of Engineering Construction in Guangdong Province	1017
	Yi Zhang, Fangfang Liu, Yousong Wang, Aimin Wei and Yan Zhang	
84	National Construction Codes and Their Inadequacies: Australia’s Arrangements and Difficulties	1027
	Mark Burgess and John Douglas Thomson	
85	The Impact of Property Taxes on Housing Price: A Review of Literature	1041
	Liping Wang, Pengyu Zhu and Cifang Wu	
86	Market Expectations of Government’s Measures to Promote Off-site Construction in Mainland China: Developers’ Perspective	1053
	Hongjuan Wu, Chao Mao and Guiwen Liu	

Part XII Information Technology for Construction Management and Real Estate

87	The Study to Spatial Difference Modeling of Residential Land Value	1067
	Zisheng Wang and Yaohua Zhang	
88	Opportunities of Building Information Modelling in Australian Offsite Manufacturing	1075
	Sherif Mostafa, Nicholas Chileshe and Jian Zuo	
89	A Preliminary Study on the Framework and Technologies for Bridging BIM and Building	1091
	Ke Chen, Weisheng Lu and Yi Peng	

Part XIII Other Topics

90	A Study on the Method and Contents of Construction Management Education in UK and Japan	1103
	Hitoshi Mihara, Takuro Yoshida, Tetsuo Hojo and Masato Urae	

91	An Empirical Study of Urban Trade Area Evolutionary Mechanism Based on Gray Correlation Analysis—A Case Study in Nanchang	1111
	Liu Qun-hong, Zhong Pu-ping and Li Min	
92	Monetary Policies and Bank Lending to China's Real Estate Industry	1121
	Yigang Wei and Zezhou Wu	
93	Market-Oriented and Bank-Oriented Corporate Governance Models Research Base on Construction Management Companies	1131
	Yongyong Zhu	
94	Contrast Analysis of Standardization Economic Contribution Rate	1139
	Hong Zhang, Zhu Qiao and Fengjiao Sun	
95	Comparative Study of Engineering Construction Standardization Economic Benefit Evaluation Methods	1149
	Zhu Qiao, Hong Zhang and Fengjiao Sun	
96	Common Illness that Affect the Performance of Residence: A Case from South Africa	1157
	Chikezie Eke, Clinton Aigbavboa and Wellington Thwala	
97	Application of the Precast Staircase and Balcony in the Residential Building	1161
	Huanhuan Wu, Yajun Cai and Yilong Zhang	
98	Critical Success Factors for Refurbishment Projects	1173
	Lyall Jackson, Jian Zuo, Zhenyu Zhao, George Zillante and Yingbin Feng	
99	Service Apartment Business Model Research—Take Ziroomapartment as an Example	1183
	Mingxuan Yu, Xiaobei Zhang and Naiyue Zhang	
100	Corporate Social Responsibility in Construction: A Critical Review on Research	1195
	Weiyan Jiang and Johnny K.W. Wong	

101	Analysis of the Relationship Between Optimal Incentive Plan and Supervision Cost.	1207
	Peng Mao, Bingqing Jiang, Xia Yao and Sishuo Li	
102	Cost of Prequalification: A Pilot Study.	1219
	M. Motiar Rahman	
103	Study on the Inherent Mechanism of Construction Safety Supervision in China.	1231
	Houquan He, Hu Cheng and Jiankun Zhang	
104	Some Suggestions for Chinese Construction Contractor's Overseas Operations Related to Performance Bond	1243
	Yan Li and Zhenyu Zhang	
105	Study on Green Ecological Property Management Model at Residential Area in China	1253
	Peng Wang, Chen Liang, Xiangang Shi and Dandan Li	