



ASCE Library

美国土木工程学会数据库使用指南



目录

- ASCE 学会和出版物简介
- 新平台的功能和检索技巧
- 作者和文献推荐
- iGroup 提供的数据库资料



- **ASCE 学会和出版物简介**



ASCE 学会——全球土木工程领域领导者

- 成立于1852年，是美国最早成立的科技类学协会之一（另一个是ASME），拥有150多年丰厚历史的国家专业工程师学会。
- 服务于来自159个国家的近14万的专业会员，为会员提供各种在线培训和研讨会。
- ASCE 是被美国国家标准研究所 (ANSI) 认证的学术组织。ASCE 的标准也被 ANSI 的 online document library 所引用。



ASCE 下属技术部门

ASCE 拥有14万会员，其中 6200 多位土木工程师服务于 ASCE 的技术委员会。学会的技术活动委员会 (TAC) 下设 12 个部门或分会，举办会议并编撰会议录：

Aerospace Division (ASD)

Committee on Metrication (COM)

Committee on Sustainability (CS)

Council on Disaster Reduction (CDR)

Energy Division (EYD)

Geomatics Division (GMD)

Pipeline Division (PLD)

Technical Council on Cold Regions Engineering (TCCRE)

Technical Council on Computers and IT (TCCIT)

Technical Council on Forensic Engineering (TCFE)

Lifeline and Earthquake Engineering (TCLEE)

Technical Council on Wind Engineering (TCWE)

航空航天部门

公制计算委员会

可持续会员会

减灾理事会

能源部门

地理测绘部门

管线部门

极寒地区工程技术理事会

计算机和信息技术理事会

工程法律事务理事会

生命线工程和地震工程

风能工程技术理事会



ASCE 学会——土木工程师交流的平台

- ASCE 每年举办 20 场左右的学术会议
- ASCE 为美国土木工程师和勘测师开设认证和培训的课程
 - 其中还有在线讲座（webinar）形式的课程，讲座主题从水处理技术到公路建设，涉及土木工程师的各种操作。

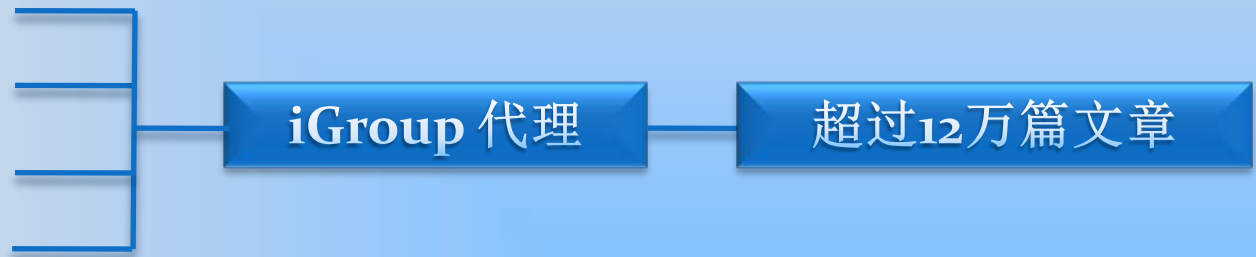
The screenshot shows the ASCE website's 'ELEARNING WEBINARS' page. The header includes the ASCE logo and navigation links: MEMBERSHIP & COMMUNITIES, EDUCATION & CAREERS, CONFERENCES & EVENTS, and ISSUES & ADVOCACY. The breadcrumb trail is 'Education & Careers > Continuing Education >'. The main heading is 'ELEARNING WEBINARS' with a 'SHARE' button. Below the heading, a text block states: 'As an ASCE member, you have free member-only access to live eLearning webinars to enhance your personal and professional knowledge. Topics include:'. A list of topics follows: Engineering technical areas, Social media for personal and professional use, Volunteering and mentoring, Professional development, and Business and financial planning. On the left, a sidebar lists 'ASCE CONTINUING EDUCATION' options: Live Webinars, Guided Online Courses (with sub-items: How it Works, Drinking Water Treatment Technology, Earthquake Engineering for Structures, Policies), and ASCE Week.



ASCE 学会——全球最大的土工技术类出版社

- 出版物类型

- 学术期刊
- 会议录
- 学会杂志
- 电子图书
- 标准--online version not subscribed through iGroup





ASCE 出版物

iGroup 代理

- 36 种同行审阅期刊（1983-present）
- 超过420卷会议录（1996-present）
- 含近1,000篇文章的《土木工程》杂志回溯刊（2005-2016）
- 330多本电子图书（1985-present）





ASCE 期刊

- 36 种土木工程核心期刊，最早回溯之1983年，每年更新240多期。
- 其中27 种已被 SCI 收录，占总数约3/4。
- 由ASCE下属研究所管理和编辑，每篇文章都经过同行评审，注重实践价值
- 根据最新的期刊引用报告（JCR）：相较于2016年，2017年平均每本期刊IF增长率28.43%，并连续三年增长；有24种期刊的影响因子超过1，比2016年增加4种。

※ 详情可至iGroup公司网站下载数据库单页和期刊列表



ASCE 期刊——学科分布

- 地质技术

International Journal of Geomechanics	《国际地质力学期刊》	月刊
Journal of Geotechnical and Geoenvironmental Engineering	《土工技术与地质环境工程期刊》	月刊

- 工程力学

Journal of Engineering Mechanics	《工程力学期刊》	月刊
Journal of Nanomechanics and Micromechanics	《纳米力学与微观力学期刊》	季刊



- 数学

Journal of Surveying Engineering	《测量工程期刊》	季刊
Journal of Computing in Civil Engineering	《土木工程计算期刊》	双月刊

- 建筑施工

Journal of Performance of Constructed Facilities	《竣工设施性能期刊》	双月刊
Practice Periodical on Structural Design and Construction	《结构与施工实用期刊》	季刊



- 工程管理

Journal of Management in Engineering	《工程管理期刊》	双月刊
Journal of Professional Issues in Engineering Education and Practise	《工程教育与实践专业问题期刊》	季刊
Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering	《工程系统中的风险和不确定性, A辑 土木工程》	季刊
Legal Affairs and Dispute Resolution in Engineering and Construction	《工程建设中的法律事务和纠纷解决》	季刊



- 结构工程

Journal of Bridge Engineering	《桥梁工程期刊》	双月刊
Journal of Pipeline Systems Engineering and Practice	《管道系统工程和实践》	季刊
Journal of Structural Engineering	《结构工程期刊》	月刊
Practice Periodical on Structural Design and Construction	《结构与施工实用期刊》	季刊



- 交通运输

Journal of Infrastructure Systems	《基础设施系统期刊》	季刊
Journal of Transportation Engineering, Part A: System——2017年更名	《运输工程期刊, A辑: 系统》	月刊
Journal of Urban Planning and Development	《城市规划与发展期刊》	季刊
Journal of Highway and Transportation Research and Development, English Edition	《公路交通科技》英文版	季刊
Journal of Transportation Engineering, Part B: Pavements——2017年新刊	《运输工程期刊, B辑: 路面》	TBD



- 建筑学

Journal of Composites for Construction	《建筑复合材料期刊》	双月刊
Journal of Construction Engineering and Management	《建筑工程与管理期刊》	月刊
Journal of Materials in Civil Engineering	《土木工程材料期刊》	月刊
Journal of Architectural Engineering	《建筑工程期刊》	季刊



- 环境工程和水资源

Journal of Environmental Engineering	《环境工程期刊》	月刊
Journal of Hydraulic Engineering	《水力工程期刊》	月刊
Journal of Hydrologic Engineering	《水文工程期刊》	月刊
Journal of Irrigation and Drainage Engineering	《灌溉与排水工程期刊》	月刊
Journal of Water Resources Planning and Management	《水资源规划与管理期刊》	月刊
Journal of Sustainable Water in the Built Environment	《建成环境中的可持续用水》	季刊



- 其他方面的研究

Journal of Waterway, Port, Coastal, and Ocean Engineering	《航道、港口、海岸与海洋工程期刊》	双月刊
Journal of Aerospace Engineering	《航天工程期刊》	双月刊
Journal of Cold Regions Engineering	《寒区工程期刊》	季刊
Journal of Energy Engineering	《能源工程期刊》	双月刊
Natural Hazards Review	《自然公害评论》	季刊
Practice Periodical of Hazardous, Toxic & Radioactive Waste Management	《危险性、毒性和放射性废物管理实用期刊》	季刊



ASCE 会议录

- 2004 年秋季上线，最早回溯到1996年。
- 收录420 多卷、近50,000 篇会议录，并以每年20多卷的速度更新。
- 宜按会议录主题 (topics) 浏览

TOPICS & BOOK SERIES	^		
ASCE Book Series ^	533		August 14-18, 2016 · Chicago, Illinois
Proceedings	533		
GSP (geotechnical proceedings & reports)	185		Geo-Chicago 2016: Geotechnics for Sustainable Energy GSP 270 · Geo-Chicago 2016 August 14-18, 2016 · Chicago, Illinois
GPP (geotechnical proceedings)	10		
CDRM monographs (disaster/risk)	3		
Technical Reports	3		
TCLEE monographs (lifelines & earthquakes)	2		
TEMSP (engineering mechanics proceedings)	2		
Topics ^	529		Geo-Chicago 2016: Sustainable Geoenvironmental Systems GSP 271 · Geo-Chicago 2016 August 14-18, 2016 · Chicago, Illinois
Geotechnics v	215		
Transportation engineering v	69		
Water and water resources v	63		



ASCE 会议录

- 超过30个会议录主题

会议录主题	会议录卷数
航天工程	15
建筑工程	7
桥梁	33
职业发展	33
海岸工程	51
寒区工程	7
土工中的计算机技术	39
施工工程	85
防灾减灾	49
能源	9
工程力学	5
环境工程	64
鉴证工程	20
测绘	2
地质技术	214
海洋工程	30

※ 数据形成时间
2016年年底



ASCE 会议录

- 超过30个主题

会议录主题	会议录卷数
建筑史	21
基础建设管理	53
生命线系统	5
建筑材料	39
路面	112
管线	21
港口建设	10
风险管理	13
结构工程	61
可持续发展	43
交通运输	86
隧道和地下施工	44
城市规划和发展	27
水资源管理	66
航道	30



ASCE 会议录—知名学术会议

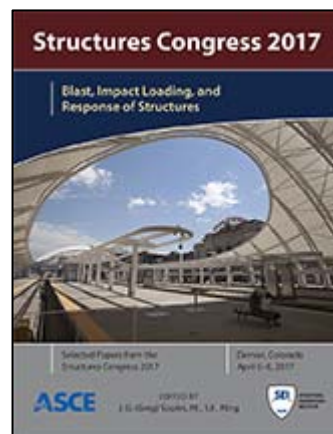
CICTP (国际交通科技年会)



ICCREM (建设与房地
产管理国际学术研讨会)



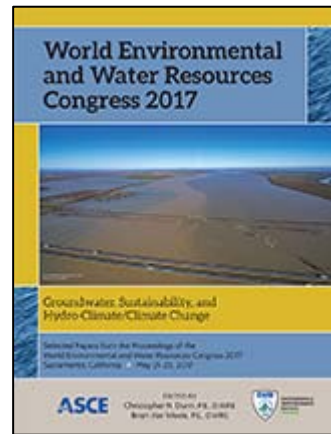
Structure Congress
(结构大会)



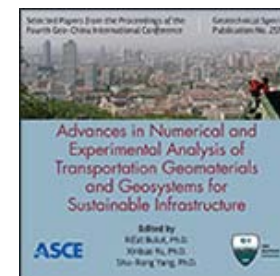
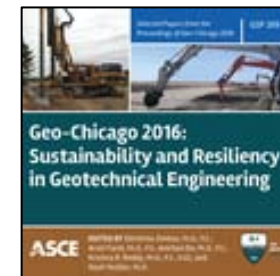
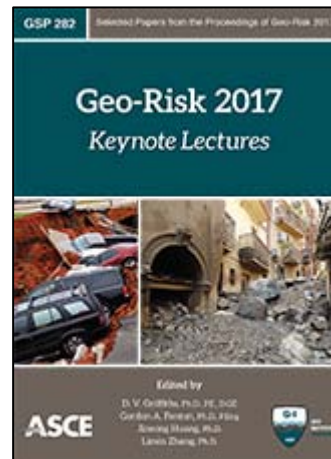


ASCE 会议录—知名学术会议

WEWRG (世界环境
和水资源大会)



GSP系列会议





《土木工程》杂志

- 2016年，《土木工程》杂志回溯内容在ASCE数据库上线。
- 目前包括杂志于2005~2016发表的1,000多篇文章及高清插图。
- 带您回顾近年来优秀建筑项目和结构、司法事件、技术成果和职业伦理问题。
- 全球发行量最大的工程类杂志，全球有140,000名工程师已订阅纸刊。

JOURNALS

BOOKS ▾

MAGAZINE

AUTHOR SERVICES

USER SERVICES



ASCE电子图书—*new for 2018!*

- 2018年起ASCE电子书开放国内用户购买。
- 没有强制性的DRM（数字版权管理措施）；提供MARC记录。
- 体裁多样：技术报告、名人传记、历史纪实、经验总结、操作指南、职场策略 & 会议录和电子书的投稿指南。
- 涉及建筑物设计、灾后重建、道路建设、管线工程、城市基建、环境和水资源规划（包括堤坝和港口建设）等话题。

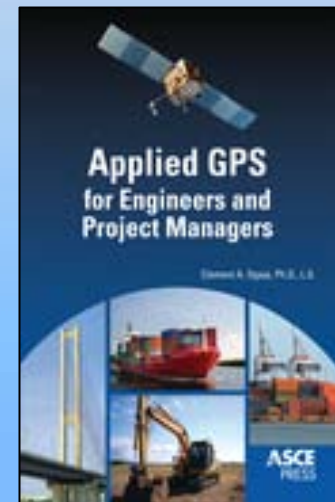
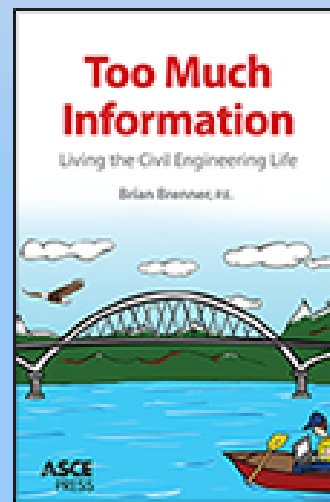
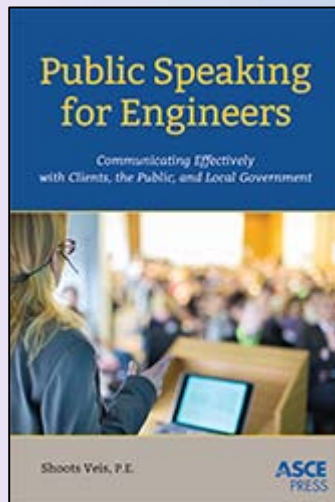
JOURNALS	BOOKS ^	MAGAZINE	AUTHOR SERVICES	USER SERVICES
	BOOKS			
	PROCEEDINGS			
	STANDARDS			

Welcome to the ASCE Library!
and the Right Solution for Your Project.



ASCE电子图书—*new for 2018!*

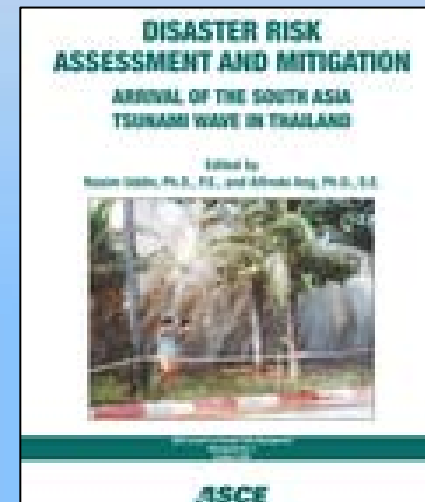
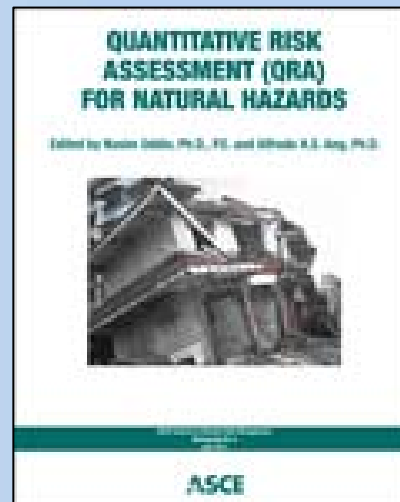
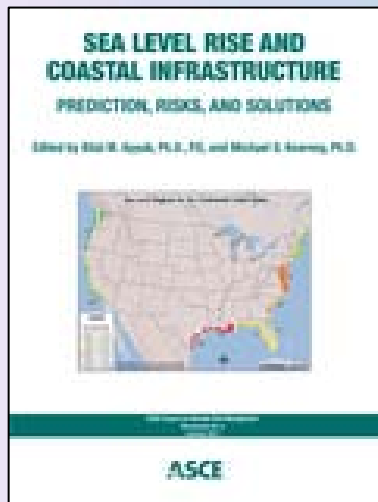
- ASCE Press系列——职业伦理、工作技巧





ASCE电子图书—*new for 2018!*

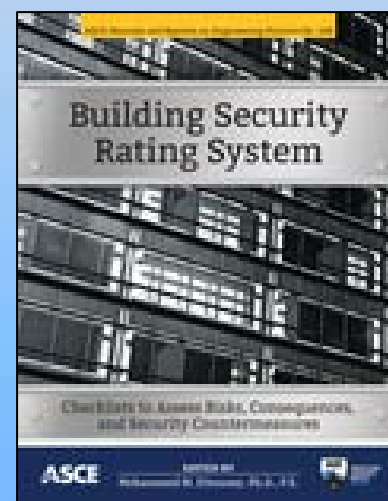
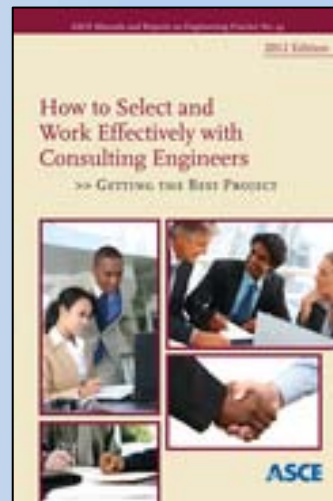
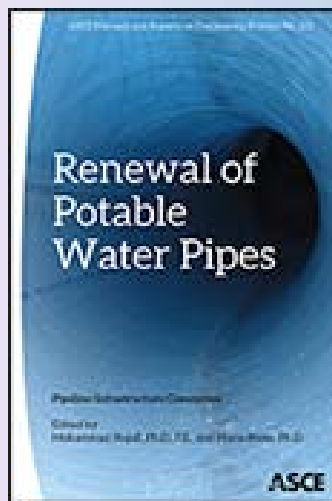
- CDRM Monograph系列——灾害预警措施





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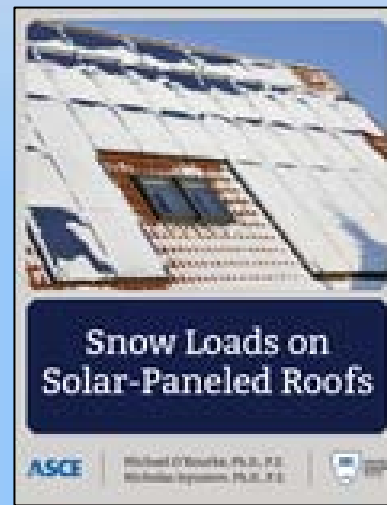
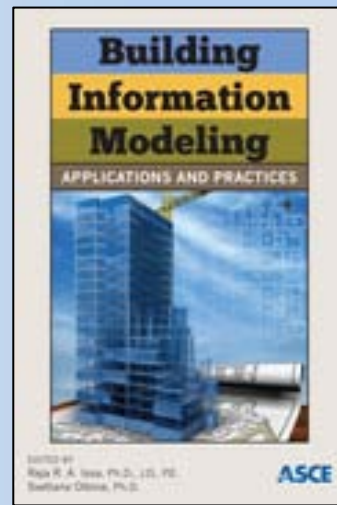
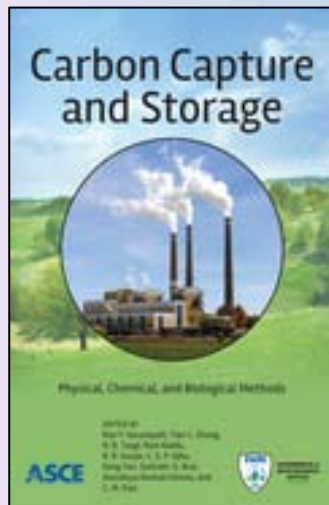
- Manual of Practice系列——操作方法的指导性手册





ASCE电子图书—*new for 2018!*

- Technical Reports系列——调查问题、总结方法





- **新平台的功能和检索技巧**



ASCE 数据库平台概况

- 2017年起 ASCE 使用自己设计的数据库平台，收录其所有电子出版物。
- 全球最大的土木工程资源库。
- 中国机构用户最多可访问 12 万篇文献（期刊、会议录、杂志、图书）。
- 2016 年全年中国高校用户下载量超过 87 万。
- 在全球范围产生每月 50 万次的下载量。
- 用户可以下载整卷会议录的 PDF 全文了。



基本功能

A. 期刊主页

The screenshot shows the ASCE Journals homepage. At the top, there is a navigation bar with links for JOURNALS, BOOKS, MAGAZINE, AUTHOR SERVICES, and USER SERVICES. Below the navigation bar, the page title is "Home / Journals". The main content area displays a list of journals, including "Journal of Aerospace Engineering", "Journal of Architectural Engineering", and "Journal of Bridge Engineering". Each journal entry includes the volume and issue information and a link to "Aims & Scope".

On the left side, there are filter sections: "SELECTED FILTERS" with a clear button, "ALPHANUMERIC" with a grid of letters (A-Z, 0-9), and "TOPICS" with a list of categories and their counts. The "TOPICS" section is highlighted with a red box.

At the bottom left, there is a URL fragment: "wPublications?pubType=journal".

选择查看单本期刊的主旨和研究范围

使用TOPIC选项
筛选期刊

Home / Journals / Journal of Management in Engineering

Journal of Management in Engineering

ISSN (print): 0742-597X | ISSN (online): 1943-5479
Frequency: Bimonthly | Sponsored by Committee on Leadership and Management

JUST RELEASED CURRENT ISSUE ALL ISSUES

点击展开
所有卷期

了解该期刊的
基本研究范围
以及编辑队伍

主编精选文章
(非OA)

Editor
Young Hoon Kim
Ph.D., M.ASCE,
The George Washington
University

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ABOUT THIS JOURNAL

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Editorial Board

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Most Recent

Harvesting Competitiveness through Building Organizational Innovation Capacity

Zhu et al. | MAR 2017

Using Best-Value Procurement to Measure the Impact of Initial Risk-Management Capability on Qualitative Construction Performance

Perrenoud et al. | MAR 2017

Establishment of Growth Strategies for International Construction Firms by Exploring Diversification-Related Effects

Interorganizational Projects: Reexamining Innovation Implementation via IPD Cases

Esther Paik et al. | MAR 2017

News

EDITOR'S CHOICE

MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

Many sustainability rating systems have been developed to assess the sustainable development of the built environment. [Read more...](#)

ANNOUNCEMENT

Call for Papers

Special Collection on "Organizational Behavior and Governance of Megaprojects"

AWARDS

2016 Best Paper Award

Kim, B. (2014). "Dynamic Control Thresholds Earned Value Analysis and Reliable Early Warning." *J. Manage. Eng.*, 31(5), 04014077.

主题文集

征稿信息



Related Content

Books and Journals



与该期刊相关的其他刊和电子书

Most Read

2016 Journal of Management in Engineering End-of-Year Review

Kwak | MAR 2017

Comparative Analysis on the Adoption and Use of BIM in Road Infrastructure Projects

Chong et al. | JUN 2016

BIM Execution Planning in Green Building Projects: LEED as a Use Case

Wu et al. | JUN 2014

Greening Project Management Practices for Sustainable Construction

Robichaud et al. | MAY 2010

Investigating the Relationship between Project Complexity and Success in Complex Construction Projects

Luo et al. | JUL 2016

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Robichaud et al. | MAY 2010

Empirical Study of Risk Assessment and Allocation of Public-Private Partnership Projects in China

Chan et al. | OCT 2010

Critical Review of Labor Productivity Research in Construction Journals

Yi et al. | MAR 2013

Extraction of Decision Alternatives in Project Management: Application of Hybrid PSO-SFLA

Orouji et al. | FEB 2013

Paradigm Trajectories of Building Information Modeling Practice in Project Networks

Taylor et al. | APR 2009

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B. 期刊全文页面

返回目录页

Journal of Management in Engineering Volume 33 Issue 1 - January 2017

Technical Papers

Downloaded 223 times

DETAILS FIGURES REFERENCES RELATED

MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

Dean Papajohn, P.E., M.ASCE; Chris Brinker; and Mounir El Asmar, Ph.D., A.M.ASCE

FULL TEXT



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TOOLS



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Abstract

Many sustainability rating systems have been developed to assess the sustainable development of the built environment. Most rating systems rely on indicators to measure specific project features. However, there is no widely accepted framework to evaluate sustainability rating systems. This paper contributes to the body of knowledge by developing a metaframework for assessing ratings of sustainability (MARS). Instead of assessing specific projects, MARS provides a novel view by analyzing the sustainability rating systems themselves. A literature review highlights relevant theories, concepts, and processes used in works of sustainable rating systems. A content analysis of 95 peer-reviewed disciplines identified 19 key criteria. These 19 criteria form a framework that can be used to assess, improve, and validate existing systems, and may also serve as a basis to create new systems. A MARS scorecard is presented and its application

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文章被下载次数

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Journal of Management in Engineering

Vol. 33, Issue 1 (January 2017)

作者单位信息和联系方式



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Journal of Management in Engineering / Volume 33 Issue 1 - January 2017

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MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

Dean Papajohn, P.E., M.ASCE; Chris Brinker; and Mounir El Asmar, Ph.D., A.M.ASCE

SECTIONS

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TOOLS

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- > ABSTRACT
- > INTRODUCTION
- > LITERATURE REVIEW
- > PROBLEM STATEMENT
- > RESEARCH METHOD
- > DISCUSSION OF MAIN CRITERIA
- > EXPLORING MAIN CRITERIA TO APPLY THE MARS SCORECARD
- > PILOT TEST CASES
- > CONCLUSIONS

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Abstract

Many sustainability rating systems have been developed for the built environment to help evaluate sustainability of knowledge by developing a metaframework for sustainability (MARS). In this paper, a high-level view by analyzing the literature review highlights the key frameworks of sustainability

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publications from multiple disciplines identified 19 key criteria. These 19 criteria were organized into a metaframework that can be used to assess, improve, and compare existing rating systems, and may also serve as a basis to create new rating systems in the future. A MARS scorecard is presented and its application

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MARS: Metaframework for Assessing Ratings of Sustainability for Buildings and Infrastructure

Dean Papajohn, P.E., M.ASCE¹; Chris Brinker²; and Mounir El Asmar, Ph.D., A.M.ASCE³

Abstract: Many sustainability rating systems have been developed to assess the sustainable development of the built environment. Most rating systems rely on indicators to measure specific project features. However, there is no widely accepted framework to help evaluate sustainability rating systems. This paper contributes to the body of knowledge by developing a metaframework for assessing ratings of sustainability (MARS). Instead of assessing specific projects, MARS provides a high-level view by analyzing the sustainability rating systems themselves. A literature review highlights relevant theories, concepts, and processes used in frameworks of sustainable rating systems. A content analysis of 95 peer-reviewed publications from multiple disciplines identified 19 key criteria. These 19 criteria were organized into a metaframework that can be used to assess, improve, and compare existing rating systems, and may also serve as a basis to create new rating systems in the future. A MARS scorecard is presented and its application explained and pilot tested with a standard infrastructure rating system called Envision. Future research will use MARS to more fully evaluate existing rating systems such as Envision, Civil Engineering Environmental Quality Assessment and Award Scheme (CEEQUAL), Infrastructure Sustainability Rating Scheme, and Leadership in Energy and Environmental Design (LEED). DOI: [10.1061/\(ASCE\)ME.1943-5479.0000478](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000478). © 2016 American Society of Civil Engineers.

Author keywords: Sustainability; Sustainable development; Indicators; Assessment frameworks; Rating systems; Infrastructure; Performance measurement.

Introduction

The landmark definition of sustainable development as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs” was introduced by the World Commission on Environment and Development (WCED 1987) in a report called *Our common future*, also

ranking, or label (e.g., silver or gold). Examples of sustainability rating systems for buildings include the Building Research Establishment’s Environmental Assessment Method [BREEAM (BRE 2016a)] and U.S. Green Building Council’s Leadership in Energy and Environmental Design [LEED (USGBC 2016)]. Examples of infrastructure systems include Civil Engineering Environmental Quality Assessment and Award Scheme [CEEQUAL (BRE 2016b)]

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AWWA (American Water Works Association). (1998). "Standard methods for the examination of water and wastewater." Water Environment Federation, Washington, DC.

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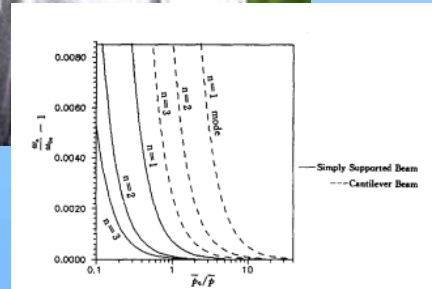


FIG. 3. Relationship between $\omega_n/\omega_{n0} - 1$ and δ_n/β (20 Elements; 42 Degrees of Freedom; $E = 2.1 \times 10^6$ N/mm²; $l = 8$ m; $I = 2.5 \times 10^6$ mm⁴; $r = 158$ mm; $\rho_0 = 6.7$ kN/m)

TABLE 1. Lowest three Frequencies of Simply Supported Beam (Hz) (20 Elements, 42 Degrees of Freedom; $\beta = 33.5$ kN/m)

Mass (m) (kg/m)	Frequency (1)	Mode		
		1 (3)	2 (4)	3 (5)
77	ω_{1n}	126.114	504.461	1,135.068
77	ω_{2n}	128.378	505.992	1,136.583
77	ω_{3n}/ω_{1n}	1.0180	1.0030	1.0013
3,402	ω_{1n}	18.970	75.881	170.738
3,402	ω_{2n}	19.311	76.112	170.966
3,402	ω_{3n}/ω_{1n}	1.0180	1.0030	1.0013



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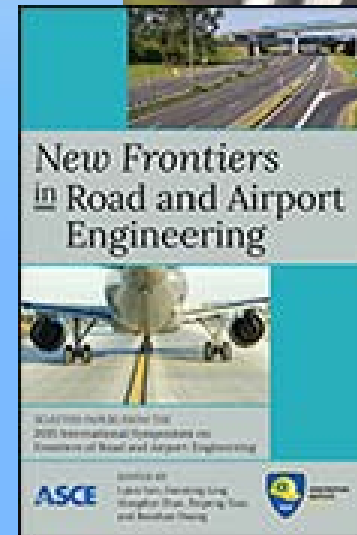
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美国土木工程师学会 (The American Society of Civil Engineers, 简称 ASCE) 成立于 1852 年, 至今已有 150 多年的悠久历史, 是历史最久的国家专业工程师学会。现在, ASCE 已是全球土木工程领域的领导者; 所服务的会员来自 159 个国家超过 13 万的专业人员。为了鼓励在工程师之间分享更多的信息, ASCE 已和其他国家的 65 个土木工程学会达成了合作协议。

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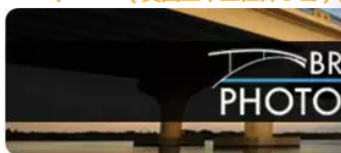


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