



December 2019

**CIB Recognised Journal Also Indexed in SCOPUS, ESCI
Call for Papers Special Issue – Deadline 30th April 2020
BEPAM: Built Environment Project and Asset Management**



ISSN 2044-124X
Volume 00 Number 00 2018



**Built Environment
Project and Asset
Management**



Application of Design for Excellence (DfX) in Construction

Background and Rationale

Design plays a vital role in construction project success. Over the years, a large number of research studies have been carried out across the globe on improving design for the built environment. These studies investigated design optimisation from different angles, including design for sustainability, design for deconstruction, design for manufacturing and assembly, design for adaptability etc. However, design-related issues arise, and at times even damage the image of the construction industry, while design optimisation is still far from reality. This has drawn the attention of industry practitioners and researchers to identify and investigate existing gaps in theory and practice that hinder design optimisation. This investigation should take a more holistic life cycle approach to improve the design instead of a narrow linear approach which focuses on one or two design-related aspects. In this context, the concept of Design for Excellence (DfX) is currently used efficiently in the manufacturing industries. DfX is a new concept that

refers to the use of a formal methodology to optimise a specific aspect of a design. The variable X represents the principal focus areas. The application of the DfX concept for construction is innovative and emerging.

This special issue expects to explore the overall concept of a holistic lifecycle approach to arrive at an optimum solution for design in construction. In exploring the above, the proposed Special Issue papers are expected to focus on what theoretical solutions are presently available; how to translate any new or improved propositions and theories to more effective and innovative practices in the construction industry to achieve design optimisation; and practices followed by various countries like Singapore in transforming the construction industry to design upfront for ease of manufacturing and assembly including the challenges encountered and any corresponding mitigation practices.

The proposed Special Issue of Built Environment Project Asset Management (BEPAM) journal titled



“Application of Design for excellence (DfX) in Construction” aspires to inspire authors to develop and submit papers on Design for Excellence (DfX).

The specific objectives of the issue include:

- To identify, integrate, develop and disseminate knowledge on the Design for Excellence concept in opening up pathways to achieving design optimisation.
- To explore the barriers and opportunities in complete DfX optimisation for delivering optimal design solutions.
- To explore and analyse leading-edge examples of best practices and assess the impact of the adaptation and implementation of DfX in construction.

This Special Issue aims to make a real impact in bringing together and synergizing advances in theory and practice on DfX. These may set the basis of a much-needed paradigm shift required in the industry to holistically improve design rather than taking a limited linear approach to deliver design optimisation.

Anticipated Themes

The following is an indicative, hence a non-exhaustive, list of anticipated themes that could be explored in this Special Issue:

- Design for sustainability
- Design for cost
- Design for procurement
- Design for manufacturing and assembly
- Design for constructability
- Design for supply chain
- Design for performance
- Design for maintainability
- Design for operability
- Design for whole-life
- Design smart
- Design for resilience
- Design for health and safety
- Design for regulatory compliance
- Design for deconstruction
- Design for adaptive re-use
- BIM as a platform to support DfX

Guidance on Submissions

All submissions to Built Environment Project and Asset Management should be through ScholarOne Manuscripts. Registration and access are available at:

<http://mc.manuscriptcentral.com/bepam>

Author guidelines must be strictly followed. Please see:

http://www.emeraldgrouppublishing.com/products/journals/author_guidelines.htm?id=bepam

The **total** word count limit (**including** Figures and Tables, counted at 280 words **each**) is **7,500 words**. Submitted articles must not have been previously published, nor should they be under consideration for publication anywhere else, while under review for this journal.

The Guest Editors will conduct an initial screening of submitted papers. Those judged suitable for the special issue will be sent to at least two independent referees for **double blind peer review**, after which submissions may be recommended for revisions and further review, acceptance or rejection.

Interested authors should select (from the drop-down menu) the special issue “**Application of Design for Excellence (DfX) in construction**” at the appropriate step in the submission process, i.e. in response to “**Please select the issue you are submitting to**”.

Deadline

*Papers for this special issue should be submitted through the above portal before **30th April 2020**. [Note: new submissions after the **deadline of 30th April 2020 cannot be considered for this Special Issue**].*

Journal

BEPAM is a CIB recognised international journal. It is indexed and abstracted in databases such as SCOPUS, EBSCO, INSPEC as well as in the ESCI (‘Emerging Sources Citation Index’) maintained by Clarivate Analytics (previously by Thomson Reuters) in ‘Web of Science’. For further information on the journal, please visit:

<http://www.emeraldgrouppublishing.com/bepam.htm>.



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