ASSESSING BUILDING PERFORMANCE: ITS EVOLUTION FROM POST-OCCUPANCY EVALUATION

Wolfgang F.E. Preiser, Jack L. Nasar

DOI: http://dx.doi.org/10.26687/archnet-ijar.v211.179

Abstract

This article chronicles the evolution of the field of postoccupancy evaluation and visual quality (aesthetic) programming and evaluation from their origins in the 1960s, and describes their transformation into current developments in systematic building performance and visual quality assessments. Major components of post-occupancy evaluations are highlighted, and examples of outcomes presented. This consumer-oriented approach is part of a new democratic paradigm embracing autonomy, self-organization, ecology, sustainability, adaptation, and continuous improvement. Methods range from qualitative self-reports of likes and dislikes to quantitative multivariate analyses, from verbal scales to observations of use, and last but not least, expert judgments. The paper discusses questions about the future of this field, its viability, cost-effectiveness, and benefits for all stakeholders. It concludes with the examination of a recent project, reported in the book Designing for Designers that used distributed technology to systematically evaluate the performance of 17 contemporary architecture school buildings from around the world. The approach is discussed, as well as methods, lessons learned, and ways in which the methodology and findings apply to other kinds of facilities and future developments in the field.

Keywords

Building performance evaluation; environmental aesthetics; post-occupancy evaluation; performance concept; visual quality programming; POE training workshop

References


Preiser, Wolfgang F.E. (1999) Scopus (May 2017), Archnet-IJAR has moved up three places and topped many prestigious journals. It is now ranked:

- Architecture (Q1) 23 out of 87
- Urban Studies (Q2) 60 out of 134

Visit Scopus Citation Score Rankings and Trends

SCIMAGO RANKING - METRICS

Archnet-IJAR advances its position among the world leading journals in Architecture and Urban Studies.

In the latest journal ranking and metrics of Scimago (SJR) laboratories (June 2017) Archnet-IJAR has moved up 5 places and and its performance exceeded many well known established journals that have been in the international refereed press for more than 40 years. Archnet-IJAR is now ranked:

- Architecture (Q1) 18 out of 117
- Urban Studies (Q2) 57 out of 138

Visit Scimago for the Ranking of Journals in Architecture and Urban Studies

SCOPUS RANKING - METRICS

Archnet-IJAR is among the top leading journals in Architecture and Urban Studies.

In the recent ranking of Scopus (May 2017), Archnet-IJAR has moved three places and topped many prestigious journals. It is now ranked:

- Architecture (Q1) 23 out of 87
- Urban Studies (Q2) 60 out of 134

Visit Scopus Citation Score Rankings and Trends

ABOUT THE AUTHORS

Wolfgang F.E. Preiser
University of Cincinnati
United States

Professor Emeritus of Architecture

Jack L. Nasar
Pennsylvania State University
United States

Professor of City & Regional Planning

RELATED ITEMS

FOR AUTHORS

For Authors

FOR READERS

SCIMAGO RANKING - METRICS

Architecture (Q1) 23 out of 87

Urban Studies (Q2) 60 out of 134

Visit Scopus Citation Score Rankings and Trends

SCOPUS RANKING - METRICS

Architecture (Q1) 23 out of 87

Urban Studies (Q2) 60 out of 134

Visit Scopus Citation Score Rankings and Trends

FOR READERS

For Readers

FOR AUTHORS

For Authors

INFORMATION

Print this article

Indexing metadata

How to cite item

Finding References

Review policy

Email this article (login required)

Email the author (login required)

APPROACH TO EDUCATING FUTURE DESIGNERS TO DESIGN AUTISM SCHOOLS

 조인 스콧 로브

AN EDUCATIONAL APPLICATION BASED ON VIRTUAL REALITY TECHNOLOGY FOR LEARNING ARCHITECTURAL DETAILS

CHALLENGES AND BENEFITS

Sayed Amir Hossein Mahgoul, Sayed Hosseini (Iran) Moineh, Yasaman Arefazar

SPECIAL ISSUES


Vol 9, 3, 2015: Design Creativity and Integrated Visualisation

Vol 9, 1, 2015: The Contemporariness of Built Heritage

Vol 8, 2, 2014: Complexity, Patterns and Significance

Vol 7, 3, 2013: Post-Disaster Reconstruction and Prospects for a Better Built Environment

Vol 3, 1, 2009: IAPS 19th Selected Papers
Post-occupancy evaluation (POE) refers to the evaluation of a completed constructed facility during its occupancy. A structured systematic POE process can answer several significant questions including: is the constructed building facility functioning as planned? If not, what corrective measures are necessary? And, how can buildings be better constructed in the future? This paper provides background on POE, including its origin, its processes and also helps to identify possible benefits of implementing a POE protocol at Michigan State University. POE measures can have application in new build... Building Performance Evaluation (BPE) is a form of Post-Occupancy Evaluation (POE) which can be used at any point in a building's life to assess energy performance and occupant comfort and to make comparisons with design targets. Post occupancy evaluation (POE) is the process of evaluating a completed development to determine: How successful its delivery was. It is important to know to what extent the building maintains its occupants' satisfaction and perceived comfort. To do this in a systematic and structured way, post-occupancy evaluation (POE) can be employed as a major part of BPE.

Refbacks

There are currently no refbacks.

Copyright (c) 2015 International Journal of Architectural Research: ArchNet-IJAR

ABOUT US

- ISSN (Online) #1938 7806 - ArchNet-IJAR is covered by ArchNet@ MIT Libraries, Avery Index to Architectural Periodicals, EBSCO, CNKI, Pro-Quest, Scopus-Elsevier, Web of Science.

- Published work in ArchNet-IJAR is licensed under Creative Commons: CC-BY--NC-ND license, see http://creativecommons.org/licenses/by-nc-nd/3.0/

Copyrights © ArchNet-IJAR 2007-2018

[Share]

Visitor Hits Since 15 Jan 2014