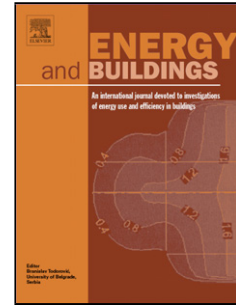


## Accepted Manuscript

Title: Optimizing Complex Building Design for Annual Daylighting Performance and Evaluation of Optimization Algorithms

Author: Benjamin J. Futrell Ertunga C. Ozelkan Dale Brentrup



PII: S0378-7788(15)00023-7  
DOI: <http://dx.doi.org/doi:10.1016/j.enbuild.2015.01.017>  
Reference: ENB 5622

To appear in: *ENB*

Received date: 11-5-2014  
Revised date: 7-1-2015  
Accepted date: 15-1-2015

Please cite this article as: B.J. Futrell, E.C. Ozelkan, D. Brentrup, Optimizing Complex Building Design for Annual Daylighting Performance and Evaluation of Optimization Algorithms, *Energy and Buildings* (2015), <http://dx.doi.org/10.1016/j.enbuild.2015.01.017>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- We optimized a complex classroom design for annual daylighting performance.
- We evaluated daylighting with a new metric well-suited for optimization routines.
- We assessed the performance of four optimization algorithms.
- Two algorithms converged quickly but found inconsistent solutions.
- Two algorithms converged slowly and consistently found near-optimal solutions.

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/6732096>

Download Persian Version:

<https://daneshyari.com/article/6732096>

[Daneshyari.com](https://daneshyari.com)