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ASME Journal of Engineering for Sustainable Buildings and Cities

Special Issue on Well-being in the Built Environment

Americans spend approximately 90% of their time indoors, and the quality of the indoor environment directly impacts their well-being. A sense of well-being in the built environment is linked to productivity, performance, and employee recruitment and retention. It also helps reduce health risks, absenteeism, and associated costs. Poorly designed or controlled indoor environments are linked to some of the nation's greatest public health concerns, such as obesity, cardiovascular diseases, diabetes, asthma, and depression as evidenced by studies on sick building syndrome (SBS), respiratory distress, discomfort, stress, and anxiety.

Until recently, well-being in the built environment has been largely neglected by the building community despite decades-long research on improving energy efficiency. However, with the recent COVID-19 pandemic, we are witnessing an increased level of attention on research on this subject. Building design, construction, operation, and use strategies that benefit rather than harm occupants are an engineering grand challenge. One reason for this challenge is the need for several, often siloed disciplines, including building science and technology, public health, measurement and data science, design and architecture, human-building interaction, social science, systems design and control, and computer science, to converge towards one unified goal.

This Special Issue aims at raising awareness on the emerging topic of well-being in the built environment. It will focus on interdisciplinary research in this field - and will provide a venue for research findings from a variety of disciplinary perspectives.

Topic Areas

- Well-being centric building design and operation
- Emerging methods for measurements of well-being in buildings
- Data science and artificial intelligence for well-being in built environments
- Novel human-building interactions for well-being in built environments
- Understanding impacts, including but not limited to environmental, social, culture, and financial, of well-being in buildings
- Building energy technologies to promote well-being in buildings
- Sensing approaches and technologies to promote well-being in buildings

Publication Target Dates

Paper submission deadline:	**February 1, 2021**
Papers reviewed and revised:	**July 1, 2021**
Production process:	**August - October, 2021**
Special Issue publication date:	**November 2021**

Submission Instructions

Papers should be submitted electronically to the Journal at journaltool.asme.org. If you already have an account, log in as author and select **Submit Paper** at the bottom of the page. If you do not have an account, select **Submissions** and follow the steps. In either case, at the **Paper Submittal** page, select the ***ASME Journal of Engineering for Sustainable Buildings and Cities*** and then select the Special Issue **Well-being in the Built Environment**.

Papers received after the deadline or papers not selected for inclusion in the Special Issue may be accepted for publication in a regular issue.

Special Issue Editors

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