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ASME *Journal of Engineering for Sustainable Buildings and Cities*

Special Issue on Advanced Data Analytics and Technologies for Decoding Human Health & Well-being in Built Environments

We invite submissions for an upcoming special issue on Advanced Data Analytics and Technologies for Decoding Human Health and Well-being in Built Environments. This special issue covers topics from a recent NSF-sponsored US-UK international workshop and aims to showcase the latest research in the field of human health and well-being resulting from the impact of built environments. We welcome submissions from researchers in all relevant disciplines, such as architecture, urban planning, engineering, computer science and engineering, social sciences, public health, and those working in any area related to human health and wellbeing in built environments. This special issue seeks to advance the understanding of the complex interplay between different factors that influence human health and well-being in built environments. We are particularly interested in work that employs multidisciplinary and interdisciplinary approaches, including quantitative, qualitative, and mixed methods research, which may involve using advanced data and analytic technologies, as well as design thinking and stakeholder engagement.

The scope of this special issue includes, but is not limited to, the following topics:

- The impact of built environments on physical health and well-being: Exploring the factors that contribute to physical health and well-being in built environments, including access to physical activity opportunities, air quality, noise levels, and other environmental factors.
- The impact of built environments on mental health and well-being: Examining the relationship between built environments and mental health and well-being, such as access to green spaces, exposure to natural light, and opportunities for social interaction.
- Design and planning of healthy and sustainable built environments: Developing and implementing design strategies and planning policies that promote healthy and sustainable built environments, taking into account resource efficiency, environmental impact, and health and well-being outcomes.
- The role of technology and innovation in promoting health and well-being in built environments: Exploring the potential of emerging technologies and innovative solutions to enhance health and well-being outcomes in built environments, such as novel sensors and sensing systems, smart buildings, automated lighting and climate control systems, and virtual reality environments that simulate natural settings.
- Environmental justice and equity in built environments: Examining the distribution of environmental hazards, access to healthcare services, and the availability of healthy food options in built environments and identifying policy and planning interventions that promote environmental justice and equity. This may involve using advanced data and analytic technologies, as well as community-based participatory research and engagement with marginalized communities.

Publication Target Dates:
Manuscript submission deadline: September 22, 2023
Initial Review Completion Date: December 22, 2023
Revised Manuscript Submission deadline: January 31, 2023
Final decision notification: February 15, 2023
Special Issue Publication Date: May 31, 2024

Submission Instructions
Papers should be submitted electronically to the journal at journaltool.asme.org. If you already have an account, log in as author to your ASME account. If you do not have an account, sign up for an account. 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 **Advanced Data Analytics and Technologies for Decoding Human Health & Well-being in Built Environments**.
All articles will be open-access. The fee is $1,500 per article. US authors are eligible to receive supplemental support from this US NSF-funded project (Award # 1932605). US and UK authors are strongly encouraged to co-author articles.

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