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Call for Papers

Special Collection on the Role of Emerging Technologies in AEC Education



Aims and Scope:

While the COVID-19 pandemic has forever changed our daily lives, it has also expedited the pace of technology development and integration in many fields including the architecture, engineering, and construction (AEC) industries. Moving into the post-pandemic era, it is critical to understand the role of emerging technologies in shaping the learning environment for AEC education. Anecdotal evidence in AEC education already exists with respect to pedagogical improvements made by individual technologies such as immersive computing, ubiquitous sensing, artificial intelligence (AI), robotics, big data, cyberinfrastructure, and photogrammetry. However, the human-technology frontier in AEC workplaces is destined to change fundamentally in the coming years. This Special Collection aims to advance knowledge in the application of emerging technologies in AEC education, by encouraging contributions to new concepts, methodologies, and best practices, as well as experiments and case studies for current and future integration of technologies in AEC education.

Specific topics covered: Topics of interest include, but are not limited to:

- The role of emerging technologies in minimizing the gaps between AEC curricula and industry practices,
- The use of emerging technologies (e.g., sensing, analytics, visualization, information technology, modeling, simulation) to form disruptive forces to improve the learning environment,
- Pedagogical strategies enabled by emerging technologies to enhance multidisciplinary teamwork and communication skills in AEC education,
- Challenges related to digital inequity in AEC education and the use of technologies to address them,
- Visionary approaches and methods for future AEC work and education.

Proposed Timeline:

The deadline for the full paper submission will be August 15th, 2022.