Dear Colleagues,

Energy retrofit of existing buildings represents an opportunity to upgrade the energy performance of commercial and residential buildings to improve energy efficiency and reduce energy demand. Building energy retrofit involves multiple disciplines in science and engineering, such as architecture, civil engineering, material science, real estate, urban economics, and urban planning. Energy retrofits will reduce operational costs in buildings, especially older buildings. At the same time, current energy retrofit methods and technologies face significant challenges when they are scaled up to address urban renewal problems. This Special Issue aims to provide insight into this problem and call for technical papers and case studies that demonstrate how energy retrofitting can be leveraged to the urban level in terms of design, engineering, and planning.

Keywords

- energy retrofit
- urban renewal
- built environment
- energy performance
- smart city
- smart building
- energy efficiency