

## CALL FOR PAPERS

### TECHNOLOGICAL INNOVATIONS AND DESIGN

In the 4th issue of the A|Z ITU Journal of the Faculty of Architecture, we invite our colleagues to think about innovations in technology, and their interactions with design. In recent years, the debate has revolved around the growing presence of the technology and its ramifications in architecture. The range of attitudes toward the use of technological forms, images, building techniques, and materials convey responsiveness to the unique and shifting conditions of late twentieth-century culture and society. The reason for the divergence of 20<sup>th</sup> century architecture can be perceived as reflecting the technology in buildings. Although each building is identified as an individual design, in fact buildings share many characteristics which affect the choice of technology used in its construction and maintenance. Thus, technological innovations have dematerialized geographical and cultural differences, due to the development of cultural and economical relationships at the global level.

On the other hand, Architecture is an art. The conceptual thinking of the architect reflects the feelings, perceptions, culture, and economy of the society. From this point of view, the building itself substantiates the architect's vision, giving it form and identity. Technology is merely a set of tools for bringing the building into being. Thus it is the architect's responsibility to promote or suppress cultural identity, depending on the design goals at hand. In this case, the discussion focuses on how the design can incorporate new technology without being overwhelmed by a sense of global uniformity.

In order to guide the discussion we would like to focus on the following questions, which we group under two main headings.

#### 1- Holistic Approach

- Is there a sensibility among architects that reflects primarily a cultural, rather than functional, commitment to the use of technology? And how?
- How has technology merged with architectural preoccupations to provoke a range of more expansive developments, applications and ideas?
- What is the global embrace of technological innovations as a carrier of cultural meaning?

#### 2- Design Process

- How have architects incorporated technology into their design methods?
- How has technology changed the whole process from design to implementation (e.g., design-build, engineer-architect relationship, project management, cost, labor etc.)?
- What are the global forces shaping the development of technological innovation in design?
- How does the approach to innovations in building technology vary between different countries?