

ADAPTIVE AND RESPONSIVE BUILT ENVIRONMENTS

Yer: İnşaat Fakültesi, Geoteknik Toplantı Salonu
İTÜ Maslak

3 Ocak 2014
Saat: 14.00

University of Southern California, İnşaat ve Çevre Muhendisliği bölümünden Assist. Prof. Burcin Becerik Gerber **Adaptive and Responsive Built Environments** konulu bir seminer verecektir.

İTÜ Mimarlık bölümünden mezun olan Burçin Becerik-Gerber, 2012 yılında MIT technology Review dergisi tarafından yılın genç yenilikçi kişileri arasında gösterilmiştir.

ADAPTIVE AND RESPONSIVE BUILT ENVIRONMENTS In the U.S., buildings consume 48% of energy, half of which is consumed by commercial buildings. Energy use in commercial buildings depends on the collective decisions of many individuals in different sorts of roles, including building operators and ordinary occupants, who lack direct financial incentives. Making significant progress towards sustainable building energy usage requires a broad shift in how commercial buildings are used and operated. iLAB's research aims at building interactive and intelligent environments (e.g., construction sites, transportation hubs, office buildings, etc.) with the end goal of impacting both human and building behavior to fulfill the goal of reduced energy use, and increased comfort in buildings. We investigate novel approaches to have environments that are not only aware of and make use of their users' locations, processes, activities or preferences but also create environments that learn and predict what is going to happen in the foreseeable future. The focus is on establishing human centered-environments that communicate directly with the users in a dynamic and informal way, and deliver context aware, personalized and timely information for supporting decision-making, collaborative problem solving, management of resources and learning. The research investigates how to adapt to the needs of different types of users (e.g., facility managers, first responders) through the use of adjustable autonomy, automation and collaboration. The lecture will focus on iLAB's (the Innovation in Integrated Informatics LAB, <http://i-lab.usc.edu/>)