

Information Architecture and Future Cities



Mondays 11:00 – 12:00

051-0724-13 | 2 ECTS

Lecture I, HIT F22 Information Architecture of Cities

The elective course 'Information Architecture of Cities' opens a holistic view on existing and new cities, with focus on Asia. The goal is to better understand the city by going beyond the physical appearance and by focusing on different representations, properties and impact factors of the urban system. On the one hand, we explore the city as the most complex human-made organism with a metabolism that can be modeled in terms of stocks and flows. On the other hand, we investigate data-driven approaches for the development of the future city, based on crowd sourcing. In the course 'Information Architecture of Cities' you will learn to see the consequences when information space and physical architecture merge. The first part of the course describes origins, state-of-the-art, and applications of information architecture and simulation. Both rapidly gain importance in the design of buildings, cities and territories. In the second part, we will interactively apply the findings to case studies in Europe and Asia. As course requirement, there will be three short exercises.

Supervision:

Prof. Dr. Gerhard Schmitt	gerhard.schmitt@sl.ethz.ch
Anastasia Koltsova	koltsova@arch.ethz.ch
Dongyoun Shin	shin@arch.ethz.ch

Prof. Dr. Gerhard Schmitt
Chair of Information Architecture
Information Science Lab
Wolfgang-Pauli-Strasse 27, 8093 Zürich
www.ia.arch.ethz.ch

18-02-2013	Einführung und Überblick. Introduction and Overview
25-02-2013	Das System Gebäude – Konstruktion. Building as a System – Construction
04-03-2013	Das System Gebäude - Habitat. Building as a System - Habitat
11-03-2013	Das System Gebäude – Energie. Building as a System - Energy (Guest lecture by Marcel Brülisauer, PhD, Singapore-ETH Centre)
18-03-2013	Seminarweek (no lecture)
25-03-2013	Das System Stadt - Materialflüsse. City as a System – Material Flows
01-04-2013	Easter Monday
08-04-2013	Das System Stadt - Entwurf. City as a System - Design (Guest lecture by Carles Cortadas, B Barcelona Consulting)
15-04-2013	Das System Stadt - Soziologie. City as a System – Social Science
22-04-2013	Das System Territorium - Organisation. Territory as a System - Organization (Guest lecture by Dirk Hebel, Assistant Professor, Singapore-ETH Centre)
29-04-2013	Das System Territorium - Mobilität. Territory as a System - Mobility
06-05-2013	Das System Territorium – Landschaft und Wasser. Territory as a System - Landscape and Water (Guest lecture by Milica Topalovic, Assistant Professor, Singapore-ETH Centre)
13-05-2013	Die Simulationsplattform. The Simulation Platform

Members	Max. number of students 25
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