

## **Post-hazard learning and decision-making for infrastructure systems**

Dienstag, 3. Mai 2016  
17:00 Uhr  
Auditorium HIL E 1 (Lehrgebäude Bauwesen)  
ETH Zürich, Hönggerberg, 8093 Zürich

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Rapid recovery of infrastructure systems in the immediate aftermath of a major hazard is crucial for mitigating losses and assuring well-being of communities. Infrastructures, such as transportation and communication networks and power, water and gas distribution systems, are especially vulnerable to natural and man-made hazards due to their spatially distributed exposure, dependence between component states, and multiplicity of failure modes. Bayesian network and influence diagram methods are used to model the hazard and infrastructure system, and to process information gained from observations and prioritize decision alternatives. An application to a hypothetical model of the California high-speed rail system in the aftermath of an earthquake will demonstrate the methodology.

Anschliessend an den Vortrag ist ein gemeinsames Nachtessen mit dem Referenten im Restaurant Die Waid, Waidbadstrasse 45, 8037 Zürich vorgesehen.

Nächster Vortrag: Dienstag, 31. Mai 2016, 17:00 Uhr, HIL E 1  
Dr. Andrea Bassetti, Dr. Lüchinger+Meyer Bauingenieure AG, Zürich  
“Arch\_Tec\_Lab: Neue Tragwerksformen dank der digitalen Fabrikation”