



Integrating high resolution remote sensing and GIS to build affordable data rich predictive models to better assist environmental planning, policy and mitigation.

Thursday, 16th of June 2016

Speaker: prof. John Radke
University of California Berkeley

Time: 18:00-19:00

Room L, Dep.t Ingegneria Civile Edile e Ambientale Via Marzolo 9

The recognition of pattern can lead to the discovery of underlying process. Planning and policy makers rely on the expertise of scientists to fuel their models of discovery. Although often conceptually sound, limitations in spatial scale often lead to model uncertainty and error, leading to incorrect results, bad policy and flawed planning.

Using high-resolution remote sensing imagery we extract detailed, individual-tree level vegetation cover and height information, and model its view-blocking effect in an urban landscape. We incorporate these results into a data-rich multivariate model to measure and predict its impact on a dependent variable, in this instance crime. Our methods and findings facilitate proactive policy and planning through successful integration of exogenous factors on one research platform with a GIS-based methodological framework.

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