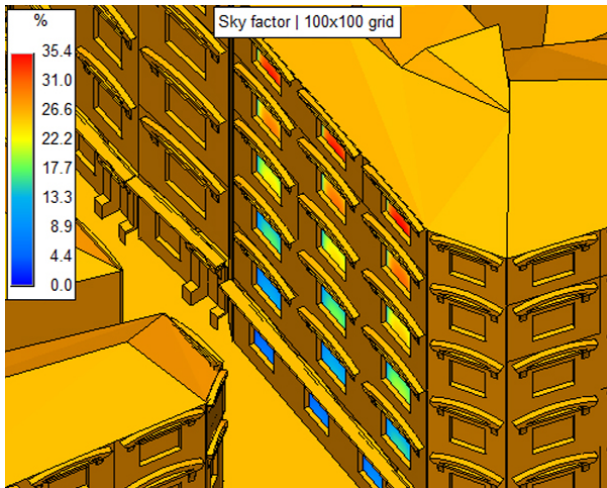


A Configurable LoD for Procedural Urban Models intended for Daylight Simulation

Besuievsky, Gonzalo; Santiago Barroso; Benoit Beckers; Patow, Gustavo A.



In many applications, such as in massive urban models visualization or in the study of the impact of urban simulation at different scales, models with different levels of detail are required. In this paper we propose a flexible system for configuring level of details models using Procedural Modeling aiming to generate only the geometry required for each specific need. We test our system for a solar simulation analysis at urban scale. We evaluate the solar irradiation and the Sky View Factor in order to study the impact at different scales. We show that our tool provides a way to handle the complexity of urban scale models, and

specifically to study the sensitivity of the geometry.