Title: Simulation-based Decision Support in the Early Design Stage

Barriers for the uptake of building performance simulation (BPS) tools for thermal and daylight evaluation in the early design stage in professional practice seems well-documented. Next step in research should therefore be on ways to overcome these barriers. In this workshop we will discuss the findings of an ongoing research project on this matter with the workshop participants. The workshop is a unique opportunity for the BPS research community to discuss research methods and approaches as well as findings with each other. The workshop is divided into two parts:

Part 1: A new research framework

A research framework for development of building performance simulation tools for early design support in architectural practice published in a recent journal paper is presented to the participants of the workshop. The presentation is followed up by a think-pair-share activity where the workshop participants provide their feedback on the proposed framework. This feedback is also the starting point for a more general discussion on the matter.

Part 2: Supporting common research activities

Recent research have identified several archetypes of design activities that building designers may choose to use during their design process. These are presented to the workshop participants. The workshop participants are then divided into groups to discuss how BPS tools can be conformed to fit these design activities. Each group present their suggestions in plenum for further discussion.

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