CRITICAL PRACTICE IN AN AGE OF COMPLEXITY - AN INTERDISCIPLINARY CRITIQUE OF THE BUILT ENVIRONMENT

- Paper / Proposal Title:
  Sysloop: The Allopoietic System

- Format:
  Written paper and verbal presentation

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  Collaborative Collective and Sysloop

- Abstract (300 words):

Sysloop is a multi-scale and cross-layered concept of ‘Allopoietic System’, a system that is autonomous though dependent on the exchange across its environment (Dekkers, 2015). The scale of local environment is focused mainly on interrelations of individual life space qualities, providing contextual autonomous behaviour across many aspects such as climate, light, sound, smell, safety, access control, etc. Advanced knowledge processing technology frees the users from routine decisions that can be automated, and introduces general support of overlapping values such as information hygiene, lifelong learning, aesthetics, overall comfort, etc. Such environments are integrated in ‘buildings’ units scale in phenomenological terms and in ‘industrial’ units focused on adaptive automation, both processing micro-sensorial data and performing qualified decision making in real-time. These together with other accessible big data are integrated to support the ‘cities’ scale layer. This layer is to serve for informed city planning and emergency situations solutions, including automated, personalized assistance to individual citizens, etc. This multi-scaled system is feedback looping across its layers and thus evolving by data and most importantly, its changing relations. It gives
to the term ‘smart buildings’ its meaning across the scales towards sustainable development, performance and ecosystems. The authors, among all the team, built the first prototypical family and office building for real-world testing. This one is elaborated at separate paper for this conference.

• References:


• Author(s) Biography (200 words each):

Indexed and Peer Reviewed Publications:


Peer Reviewed Publications:


https://www.researchgate.net/publication/307959202_Environmental_Material_Performance_of_Solid_Wood_pareSITE_The_Environmental_Summer_Pavilion


