

2019

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> Breathing Walls, Envelopes and Screens for Cross- Species co-living adaptation of built environment: The bio-climatic layers in systemic approach to architectural performance

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Suggested citation:

Davidová, Marie (2019) Breathing Walls, Envelopes and Screens for Cross- Species coliving adaptation of built environment: The bio-climatic layers in systemic approach to architectural performance. In: Proceedings of Relating Systems Thinking and Design (RSD8) 2019 Symposium, Oct 13-15 2019, Chicago, USA. Available at http://openresearch.ocadu.ca/id/eprint/3205/

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Breathing Walls, Envelopes and Screens for Cross-Species Co-Living Adaptation of Built Environment:

The Bio-Climatic Layers in Systemic Approach to Architectural Performance

Marie Davidová

'.... Drawing lines upon a planet, either by the physical inscription of walls and envelopes or by the virtual geometries of massless legal borders, is essential to anthropic politics. (Think Carl Schmitt's The Nomos of the Earth), and the multiplication and confusion of these drawings by planetary-scale computational architectures puts into play jurisdictional designations and subdivisions, or the refusal of same, and points toward unfamiliar models of geopolitical design and designation.'

(Bratton, 2013)





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Morin: relations between the whole and the parts.

The knowledge of the parts is not enough

X the knowledge of the whole as a whole is not enough (Morin, 2007).

I.e. Complex Adaptive Systems theory:

social and material categories

>> the environmental crisis produces also social crises

(Smith-Nonini, 2017).

Capra:

'mystical', 'religious', or 'spiritual' experience

(Capra, 2015).

Such discussion makes it clear that there is a need of relating hard with soft; or even tacit data and knowledge.

This paper:

> the synergies of the collected and generated holistic knowledge

> former design interpretations and new design generations

> The two kinds oscillate in feedback loops in non-linear manner in time and across the variety of disciplines.

> a possible eco-systemic change

> therefore also the change in governance and social systems

> climate change adaptation and biodiversity loss mitigation

> food security, climate and social comfort across the multiple species in built up environment, their appearance and abundance

This can be achieved through:

> new built architectures and urban design

> parasitic structures, nested on current build up environment

>> inventing schools of thoughts through:

> vernacular culture

> co-designed co-performance

Both the southern and the northern breathing walls are moderating the interaction of the building with extreme climate and its environmental-socio-cultural interaction (Davidová, 2016).

A new complexity to conceive living organization:

> the autonomy cannot be conceived without its ecology

(Morin, 2007)

That one is drastically moving with climate change and cross-species and cross-cultural migration.

This is including human species, amongst the others.

Thank you!

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