

**Title:**

Adaptive Lightweight Structures

**Organizers:**

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**Abstract:**

The demand for smart buildings with adaptive components is growing from year to year, since they increase the range of possible uses and functionalities of a building significantly. Some of the realized projects have been run successfully for over 25 years now. After such a long period refurbishment works and upgrades might be required to allow for additional decades of usage. The speakers of the invited session will on the one hand provide viable information of lessons learned from refurbished projects with retractable membranes and on the other hand will also present the state of the art design and concepts of new retractable lightweight solutions