

## **Model approximation for the control of large-scale LTI models with guaranteed stability**

Various efficient methods exist for the control of LTI models. Yet these methods can quickly become intractable as the dimension of the considered model increases. Here, a process is described to design a stabilising controller for a large-scale model using model approximation and the robust control framework. The approach is illustrated through the design of an input disturbance rejection control law for the large-scale LTI model representing a flexible space structure.