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## From finite to infinite dimensional systems: approximation and interconnection issues

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In practical problems the control laws of infinite dimensional systems are computed using projections on finite dimensional systems. Moreover, some applications are naturally described by couplings of infinite dimensional systems with finite dimensional ones. This presentation to describe the interconnections of these systems and the properties of the control laws computed on projected systems when inserted in the original infinite dimensional ones.

**Auteur principal:** Mme TAN, Ying (Department of Electrical and Electronic Engineering, Melbourne School of Engineering)

**Orateur:** Mme TAN, Ying (Department of Electrical and Electronic Engineering, Melbourne School of Engineering)