Linear System Theory EDOC	**Project I** Dr. Ph. Müllhaupt

The purpose of this project is to study dynamical compensators and in particular *the interactor* described in the paper [1].

- Transform the description of the technique into an algorithm.

- Implement the algorithm in your favorite computer algebra system (Matlab symbolic toolbox, Maple, Mathematica, or other).

- Test the computer package on the examples of the paper.

- Write a small report (max. 6 pages) describing the main features. Give the code as an appendix to this report (not counted in the page limit).

References

[1] W.A. Wolovich and P.L. Falb. Invariants and Canonical Forms under Dynamic Compensation. *SIAM J. Control and Optimization*, 14(6):996–1008, 1976.