

## STABILIZATION OF SYSTEMS BY STATIC OUTPUT FEEDBACK VIA HEURISTIC KALMAN ALGORITHM

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ABSTRACT. In this paper is presented a new method, called heuristic Kalman algorithm, for calculation of optimum value of the matrix of static output feedback. This approach can be used for the systems with continuous and discrete time. In addition, this algorithm can be easily used for the problem of simultaneous stabilization of several systems by a common static controller. Numerical examples, borrowed from the works of other authors, show the practical applicability of the proposed approach.

Key words: static output feedback, simultaneous stabilization, objective function, heuristic Kalman algorithm.