

EQUIVALENCE OF DISCRETE TIME-VARIANT CONTROL SYSTEMS ON TIME SCALES

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In [2] were presented criteria of dynamic feedback equivalence of the nonlinear discrete-time input-output control systems. The transformations that were introduced depend both on past and future values of outputs and controls (so called external dynamic feedback transformations) or on past and future values of states and controls (so called inner dynamic feedback transformations). In details properties of these transformations were studied in [1]. Now we want to extend the notation and properties of dynamic transformations of nonlinear discrete-time input-output control systems to the systems defined on discrete time scales. Now all transformations depend on time, so time-variant system are natural accommodated in this theory .

Literatura

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- [2] E. Pawłuszewicz, Z. Bartosiewicz, External Dynamic Feedback Equivalence of Observable Discrete-time Control Systems, *Proc. of Symposia in Pure Mathematics*, vol.64, pp.73-89, American Mathematical Society, Providence, Rhode Island, 1999