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Self Bounded Controlled Invariants for Singular Systems

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Abstract: A number of recent results in the geometric framework have been obtained for nonsingular systems, using the notion of Self Bounded Controlled Invariant Subspace, and of Self Hidden Conditioned Invariant Subspace. The aim of this note is to extend the above mentioned notion of Self Bounded Controlled Invariant Subspace to singular systems, to investigate its dynamical properties and to study its possible applications to noninteracting control problems.

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