Applications of functional universes in control theory

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A function universe is a set of partially defined functions that contains zero and is closed with respect to substitutions and amalgamations, see [1]. It can be seen as a generalization of a functional algebra.

From application point of view there are important such classes of function universes as global generating universes and differential/difference universes, [1, 2]. In control theory they can be used for solving of the problem of equivalence of control systems, see [2, 4] or of realization problem, see [3].

References

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