Some contributions of Kurzweil integration to functional differential equations

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Abstract

In 1957, Jaroslav Kurzweil introduced in the literature a class of integral equations called *generalized ordinary differential equations* (GODEs, for short) (see [4]). These equations have been shown to be a powerful tool to investigate measure functional differential equations, measure neutral functional differential equations, among other types of equations (see [1, 2, 3] and the references therein), obtaining more general results for these equations.

In this talk, we provide a basic overview of the Kurzweil integration and its contribution to the theory of functional differential equations as well as we present some open problems in the area.

References

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