Solovay reducibility on left-c.e. reals and computable Lipschitz continuous functions

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Solovay reducibility is a preorder that compares approximability of two reals. There are many previous works on Solovay reducibility in the research of algorithmic randomness. Among them, in recent years, Miyabe [3] and his collaborators have characterized Solovay reducibility on weakly computable reals by means of signed-digit representation and by means of Lipschitz continuous functions. One of the bases for the study mentioned above is our previous works on characterization of Solovay reducibility on left-c.e. reals by means of Lipschitz continuous functions [2, 1]. In this talk, we overview these previous works. This is a joint work with the coauthors of [2, 1].

References

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