

Some fixed point results on quasi metric spaces

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Fixed point theory is one of basic subjects in the mathematical analysis and topology. Existence and uniqueness of solutions of differential and integral equations can be find by fixed point theory. Therefore, an operator is determined for differential and integral equation, and one to one correspondence is constructed between the existence (and the uniqueness) of fixed point of this operator and existence (and uniqueness) solutions of differential or integral equations. This theory, which is useful in application, contains the research about whether the fixed point of an operator exist, whether the fixed point is unique, if it is unique, then how to find it.

Fundamentally, fixed point theory divides into three major subjects which are topological, discrete and metric. However, this theory has been improving on the metric because of useful of the applications.

The purpose of this talk is to present some fixed point theorems for single valued mappings considering a new type contraction on some kind of complete quasi metric spaces, which has a comprehensive structure space and has a more application on computer science and semantics.

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