Application of Multivalued Fixed Points and Fixed Figures

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We define some contractions to establish a multivalued fixed point, fixed ellipse, and fixed hyperbola. Further, we discuss some results which contribute to the study of the existence of multivalued fixed points, their geometry, and an application to a boundary value problem with differential inclusion significantly. This work is motivated by the geometry of set-valued fixed points performing a remarkable role in real-world problems and is fascinating and innovative.

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