

1133-51-100

Andrew Vince* (avince@ufl.edu). *Fractal Transformations of Euclidean Space.*

The attractor is a central object of an iterated function system (IFS), and *fractal transformations* are natural maps from the attractor of one IFS to the attractor of another. A global point of view is taken, extending the domain of a fractal transformation from an attractor to the ambient space. Intimately related is the extended IFS addressing of the set of points of the ambient space. Definitions, examples, results, and applications will be provided. (Received July 14, 2017)