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In this talk, we propose an interpolation method using a binary factor called signature. The proposed interpolant is constructed such that the graph of the interpolant is an attractor of a zipper rational iterated function system. Using the scale factor  $\alpha$  and the binary parameter  $\epsilon$ , we produce a wide variety of interpolants. In particular, we introduce a class of  $\alpha$ -fractal zipper rational cubic spline  $S_{\epsilon}^{\alpha} \in \mathcal{C}^1$  and investigate its shape preserving aspects. At the end we will discuss the convergence aspects of the proposed interpolant. (Received September 14, 2020)