1023-E5-164   **Ning Chen** (`n_chen@126.com`), Faculty of Information & Control Engineering, Shenyang Jianzhu University, Shenyang, 110168, Peoples Rep of China, and **Clifford Reiter*** (`reiterc@lafayette.edu`), Department of Mathematics, Lafayette College, Easton, PA 18042. *Fractal Forecasting Missing Image Data.*

Fractal forecasting is a technique for extrapolating time series data that contains an underlying deterministic chaos. Here we apply similar techniques, modified to use two space dimensions instead of one time dimension, to fill-in and extrapolate missing image data. The technique is successful at replacing significant amounts of missing data with reasonable data derived from the image itself. (Received August 16, 2006)