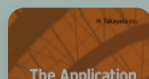


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Time Evolution of Fractal Structure by Price-Axis Scaling and Foreign Exchange Intervention Operations

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3. Kumagai Y (2002) Fractal structure of financial high frequency data. *Fractals*, 10: 13-18

[Article](#) [MathSciNet](#) [Google Scholar](#)

4. Kumagai Y (2002) Fractal dimension of high frequency data in foreign exchange market. *Journal of the Korean Physical Society*, 40: 1100-1104

[Google Scholar](#)

5. Steve N (1994) *Beyond Candlesticks: More Japanese charting techniques revealed*. John Wiley & Sons

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