Tutorial for Estimation of Fractal Dimension

Estimation of Fractal Dimension for R-R intervals
(normal subject)

\[ y = -0.466x + 9.9649 \]

\[ R^2 = 0.6155 \]

D = 0.466
Deff = 1.534

Estimation of Fractal Dimension for R-R intervals
(subject with hypertension)

\[ y = -0.3569x + 8.7431 \]

\[ R^2 = 0.8456 \]

D = 0.3569
Deff = 1.643

Estimation of Fractal Dimension for Variability Time Series
(normal subject)

\[ y = -0.2114x + 8.5937 \]

\[ R^2 = 0.6778 \]

D = 0.211
Deff = 1.789

Estimation of Fractal Dimension for Variability Time Series
(subject with hypertension)

\[ y = -0.391x + 9.0087 \]

\[ R^2 = 0.829 \]

D = 0.391
Deff = 1.610
Estimation of Fractal Variance Function

Fractal Variance Function (normal subject)

Fractal Variance Function (subject with hypertension)
Marginal Density Function

Marginal Density Function (normal subject)

Marginal Density Function (subject with hypertension)

Scale Parameter

$k = 7.95$

$k = 3.18$

$k = 5.6$

$k = 6.3$