Fig. 2 The Simulation Curves of the Regression Equation of the Training Samples

A. Linear

\[ y = 443.297x - 166.610 \]
\[ \text{R}^2 = 0.617 \]
\[ \text{SE} = 52.64 \]
\[ \text{MEC} = 34.77\% \]

B. Logarithmic

\[ y = 284.562\ln(x) + 248.525 \]
\[ \text{R}^2 = 0.579 \]
\[ \text{SE} = 55.46 \]
\[ \text{MEC} = 37.09\% \]

C. Power

\[ y = 299.611x^{2.216} \]
\[ \text{R}^2 = 0.626 \]
\[ \text{SE} = 51.32 \]
\[ \text{MEC} = 31.64\% \]

D. Exponential

\[ y = 12.523e^{3.378x} \]
\[ \text{R}^2 = 0.633 \]
\[ \text{SE} = 49.22 \]
\[ \text{MEC} = 30.01\% \]
Fig. 3 Linear regression between SOC_NDVI and TM_NDVI

\[ y = 0.462x + 0.413 \]

\[ R^2 = 0.656 \]

\[ p < 0.001 \]
Fig. 4 The correlation between predicted biomass and actual biomass

SE = 24.74
MEC = 18.61%