

Ultimate TikZ Figures for Publications

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1 Line Plots

Here is an example of a standard line plot with a legend.

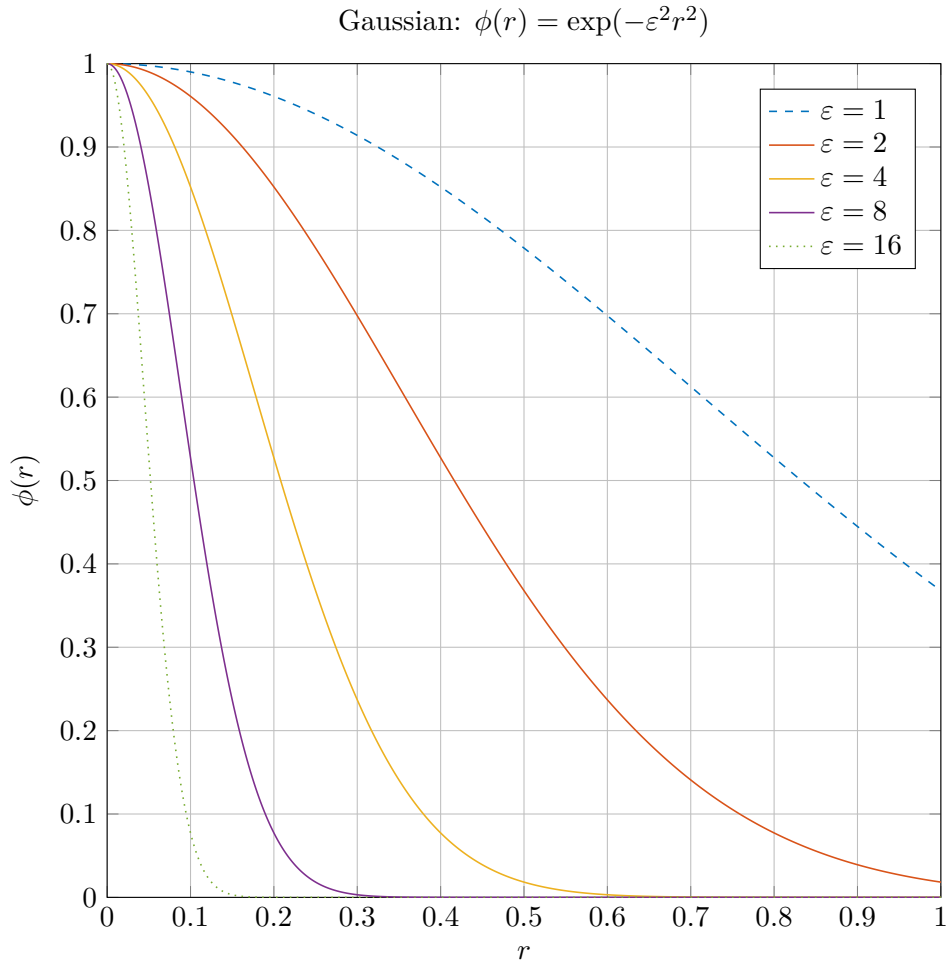


Figure 1: *Examples of GAs with different shape parameter values and PHSs of different degrees.*

1.1 Logarithmic Line Plots

This is an example combining two logarithmic line plots with different mark symbols.

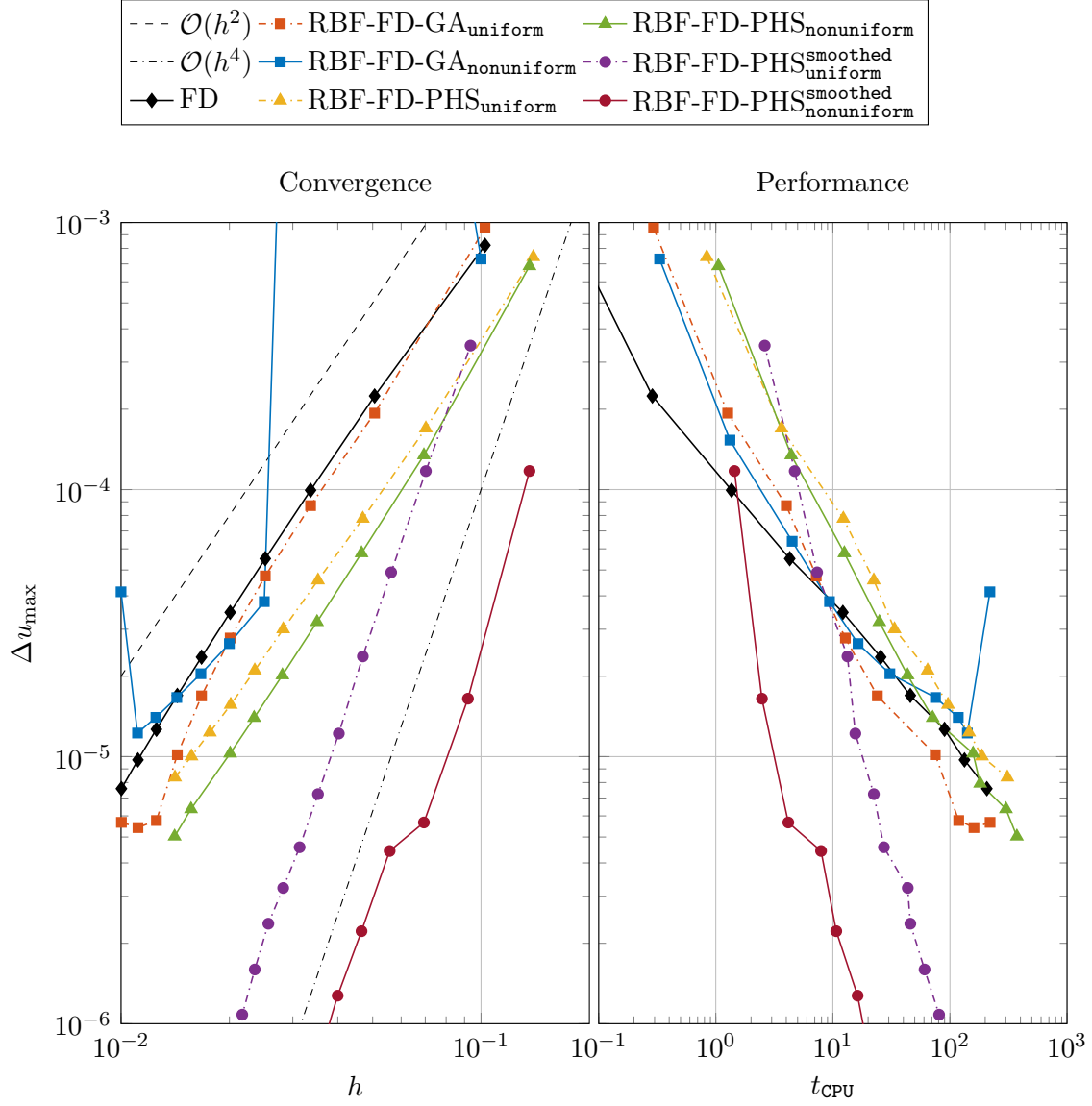


Figure 2: *Convergence and computational performance.*

1.2 Custom Ticks

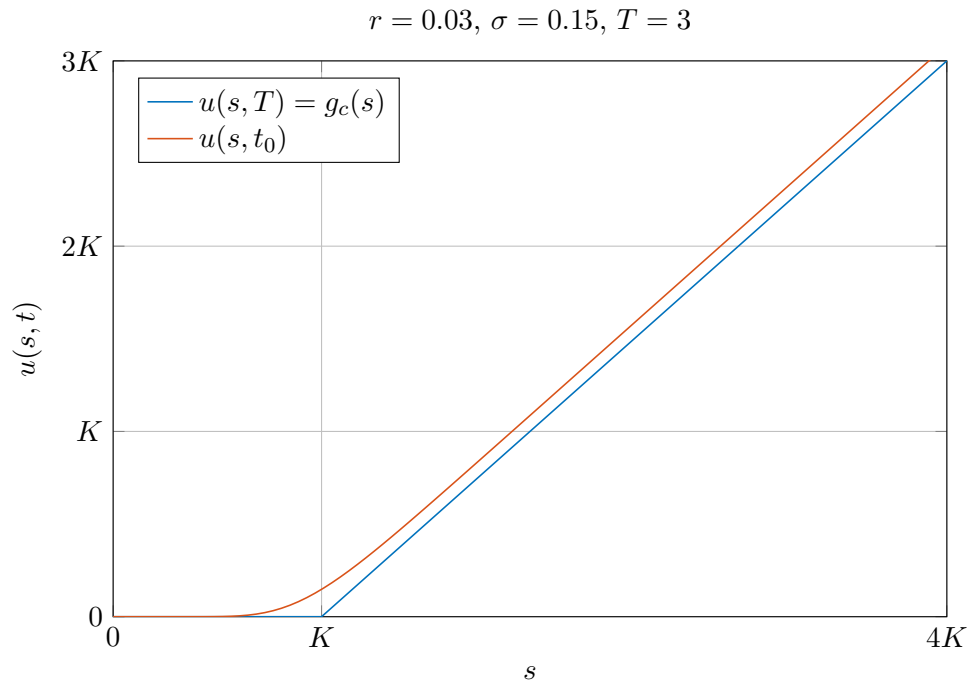


Figure 3: *Examples of GAs with different shape parameter values and PHSs of different degrees.*

2 Scatter Plots

Here is an example of a scatter plot.

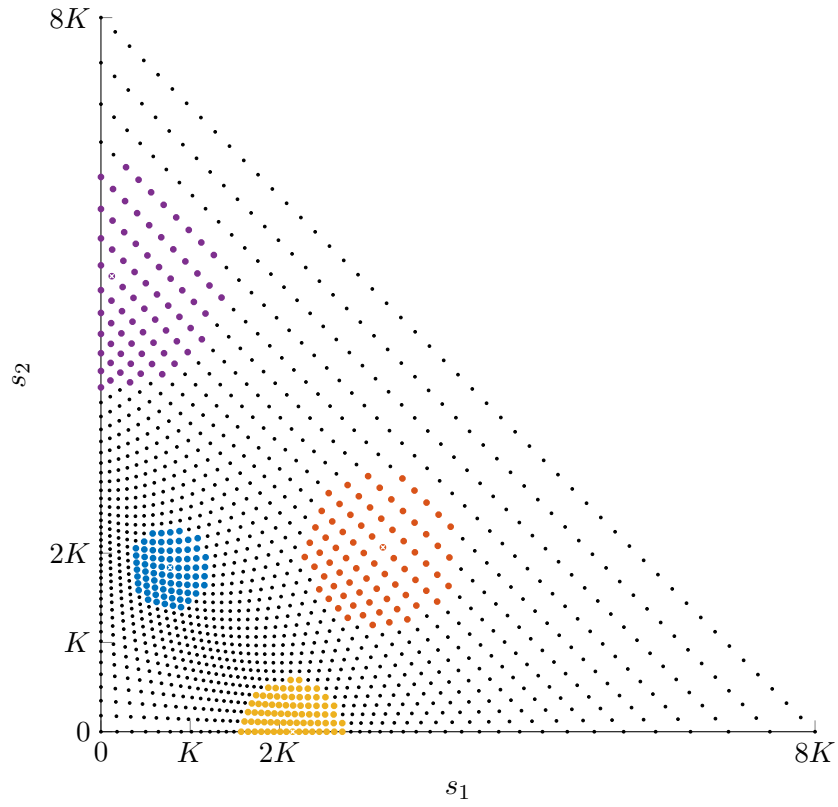


Figure 4: *A node layout.*

2.1 Different Dimensions

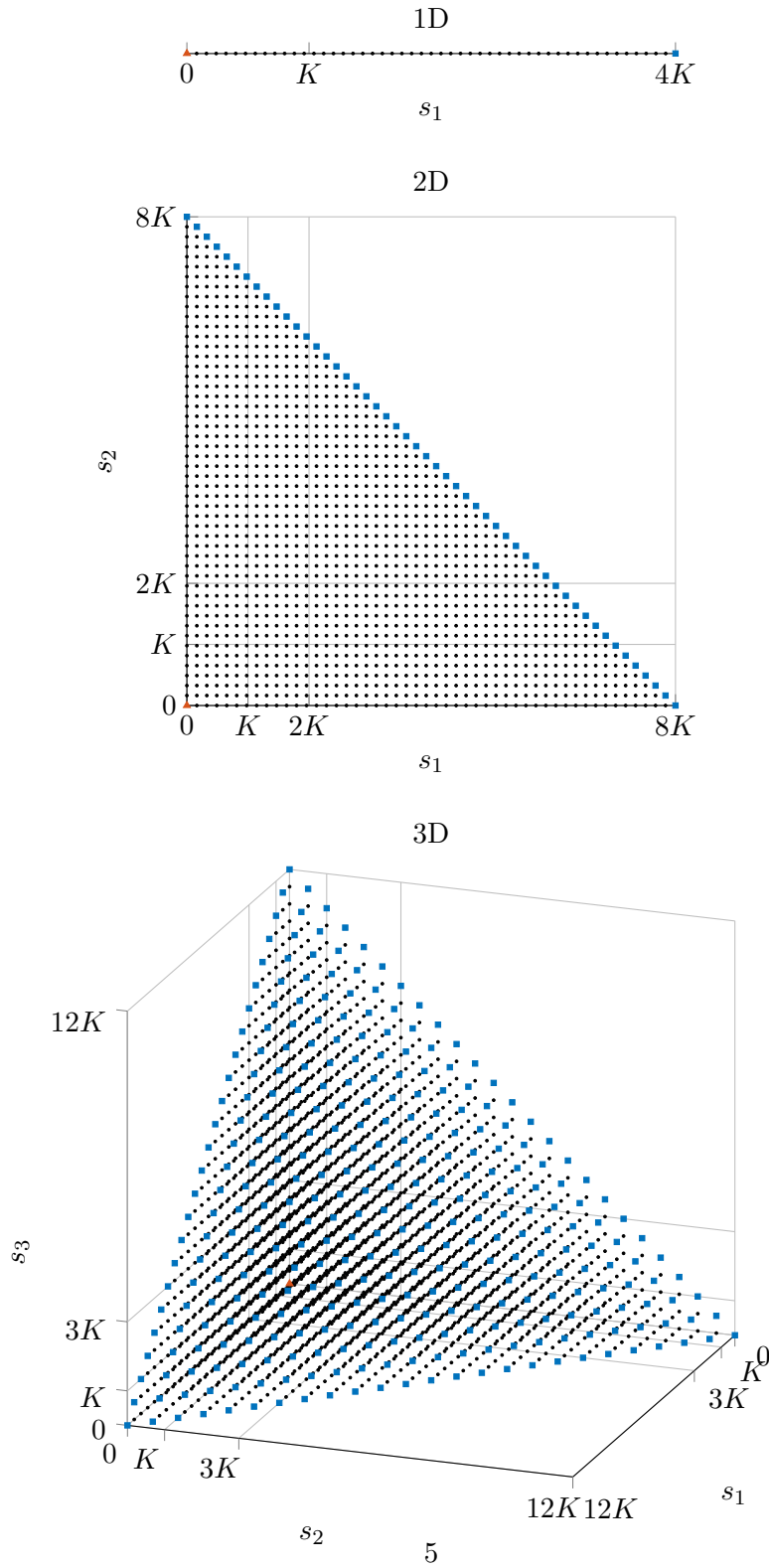


Figure 5: *Equidistant Cartesian grid based node layouts for pricing options with a different number of underlying assets. The close-field boundary conditions are enforced in the blue triangle node, and the far-field boundary conditions are enforced in the red square nodes.*

3 Embedded Bitmap

Color plots are usually not so easy to make in tikz, but they can be easily embedded in TikZ axes as bitmap images.

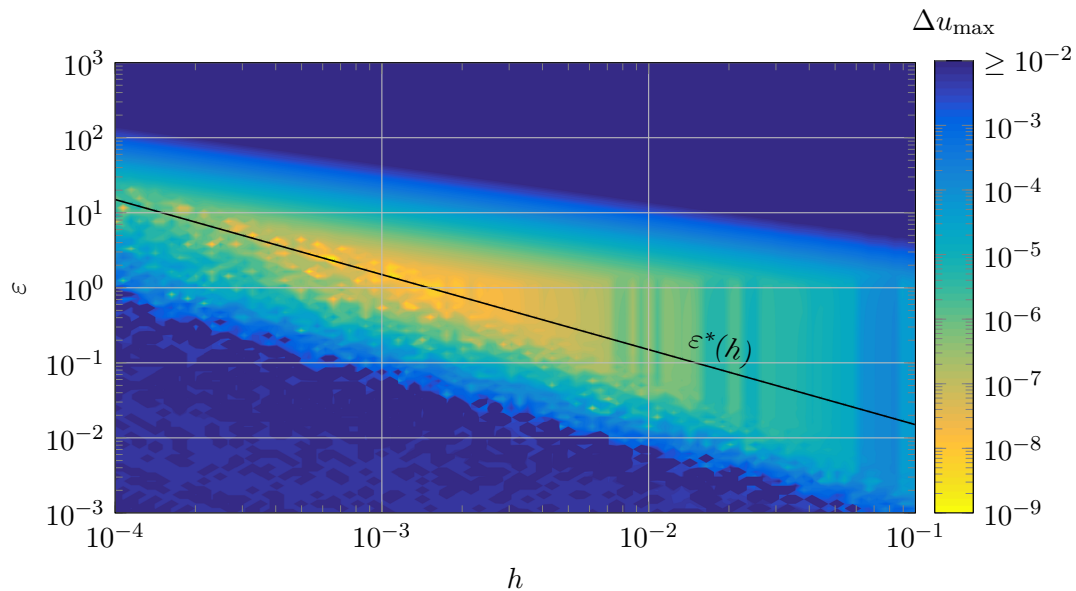


Figure 6: The maximum absolute error Δu_{\max} measured in the subdomain $\hat{\Omega} = [\frac{1}{3}K, \frac{5}{3}K]$ around the strike price K , as a function of h and ε , for a one-dimensional European call option priced on an equidistant Cartesian grid with RBF-FD stencil size $n = 3$. The black line shows the appropriate choice for the shape parameter. The RBF-FD approximation is performed using GA basis functions.