Ultimate TikZ Figures for Publications

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August 29, 2018

1 Line Plots

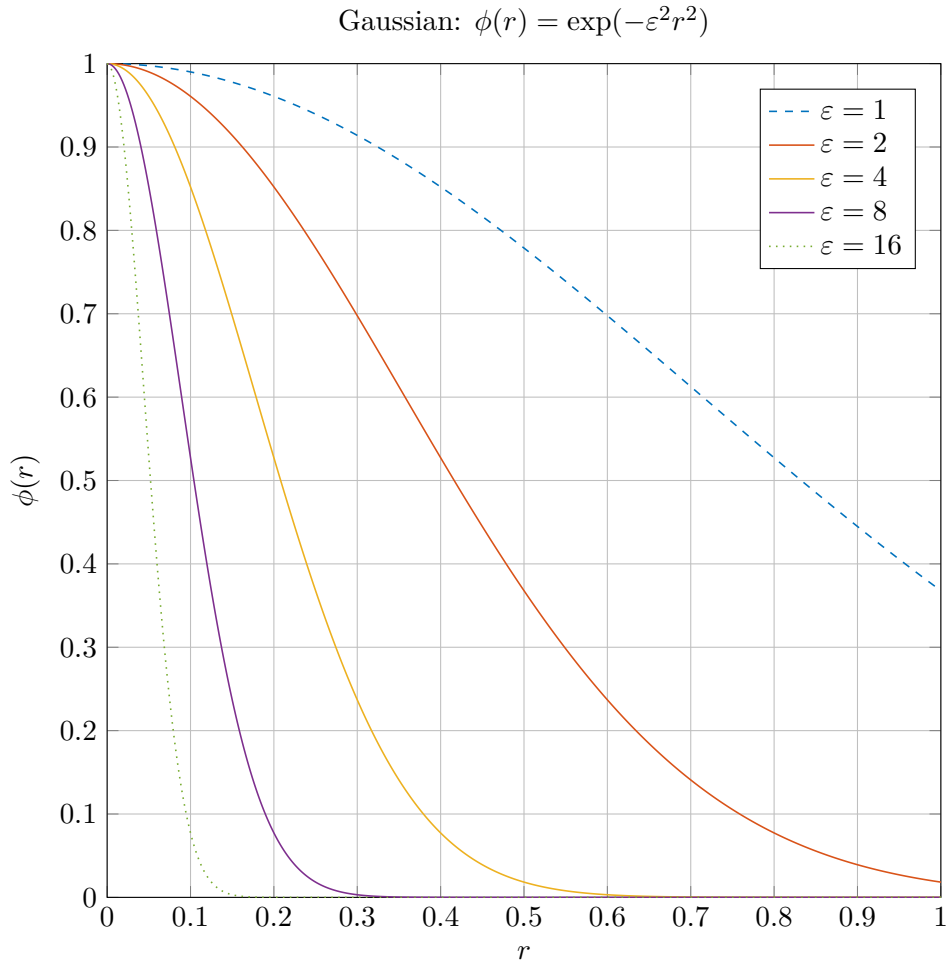Here is an example of a standard line plot with a legend.

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.
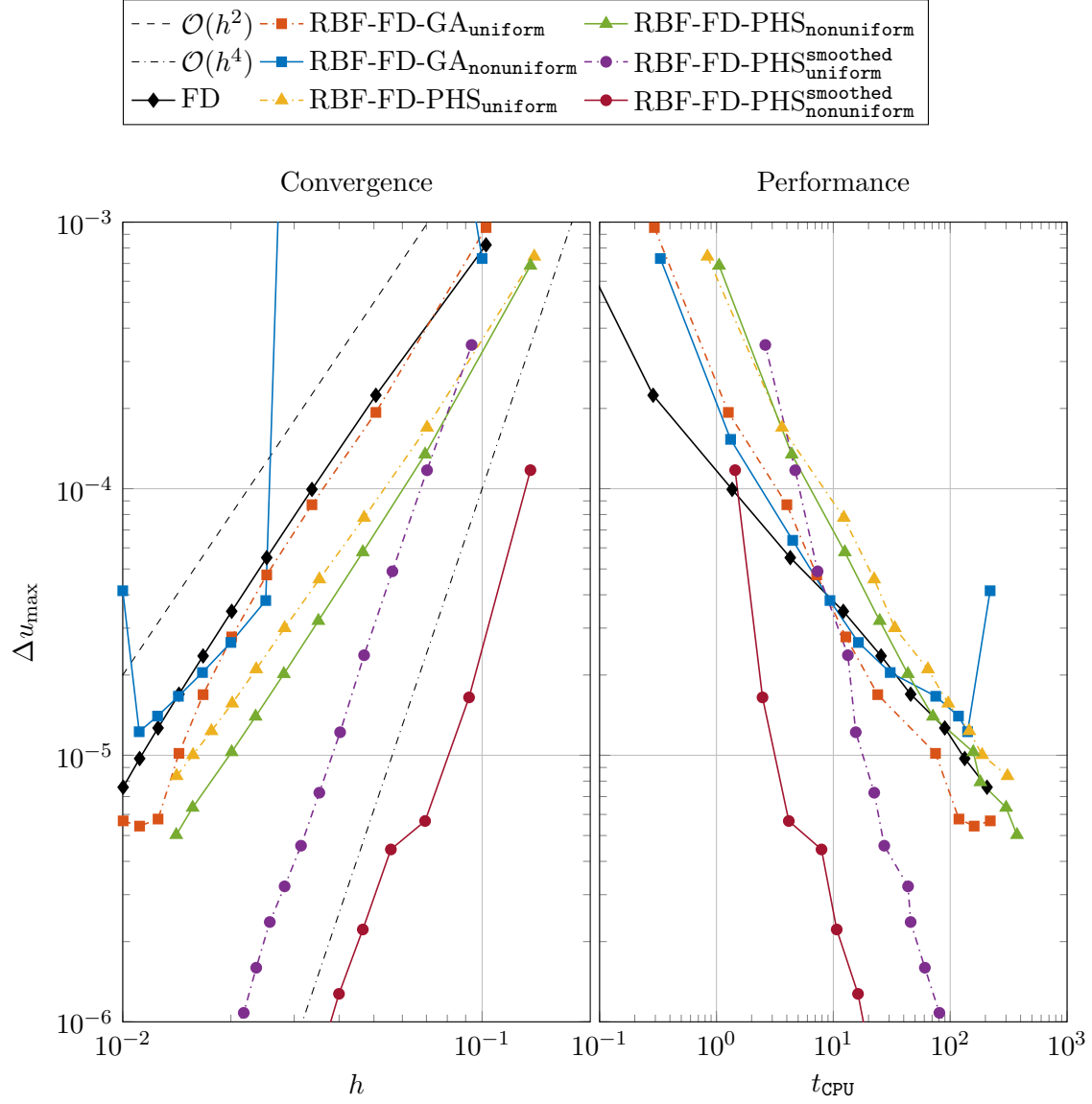

Figure 2: *Convergence and computational performance.*
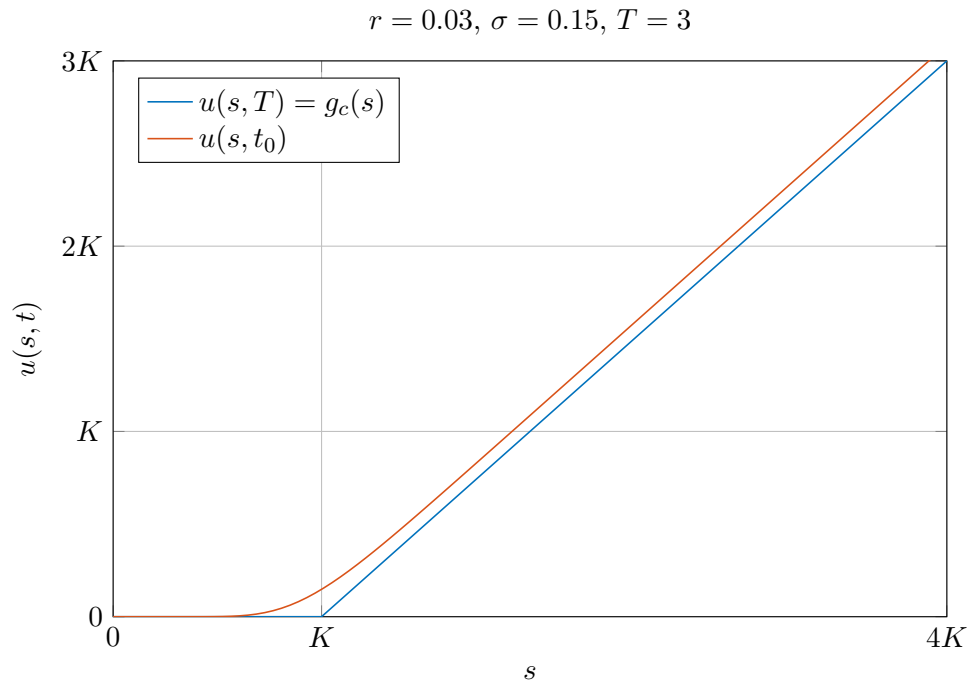
1.2 Custom Ticks

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

2 Scatter Plots

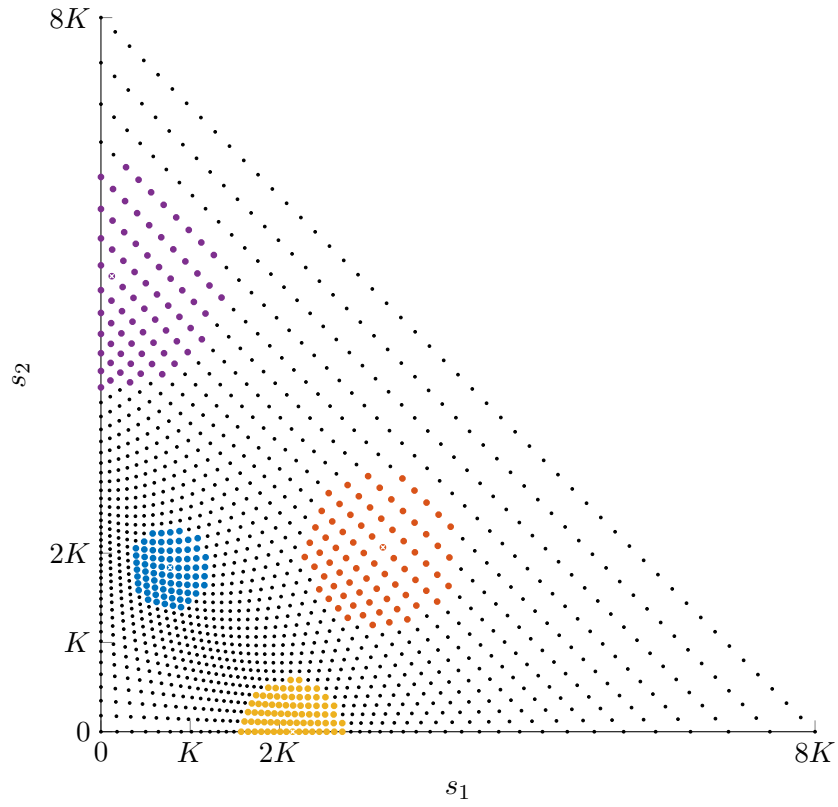Here is an example of a scatter plot.

Figure 4: *A node layout.*
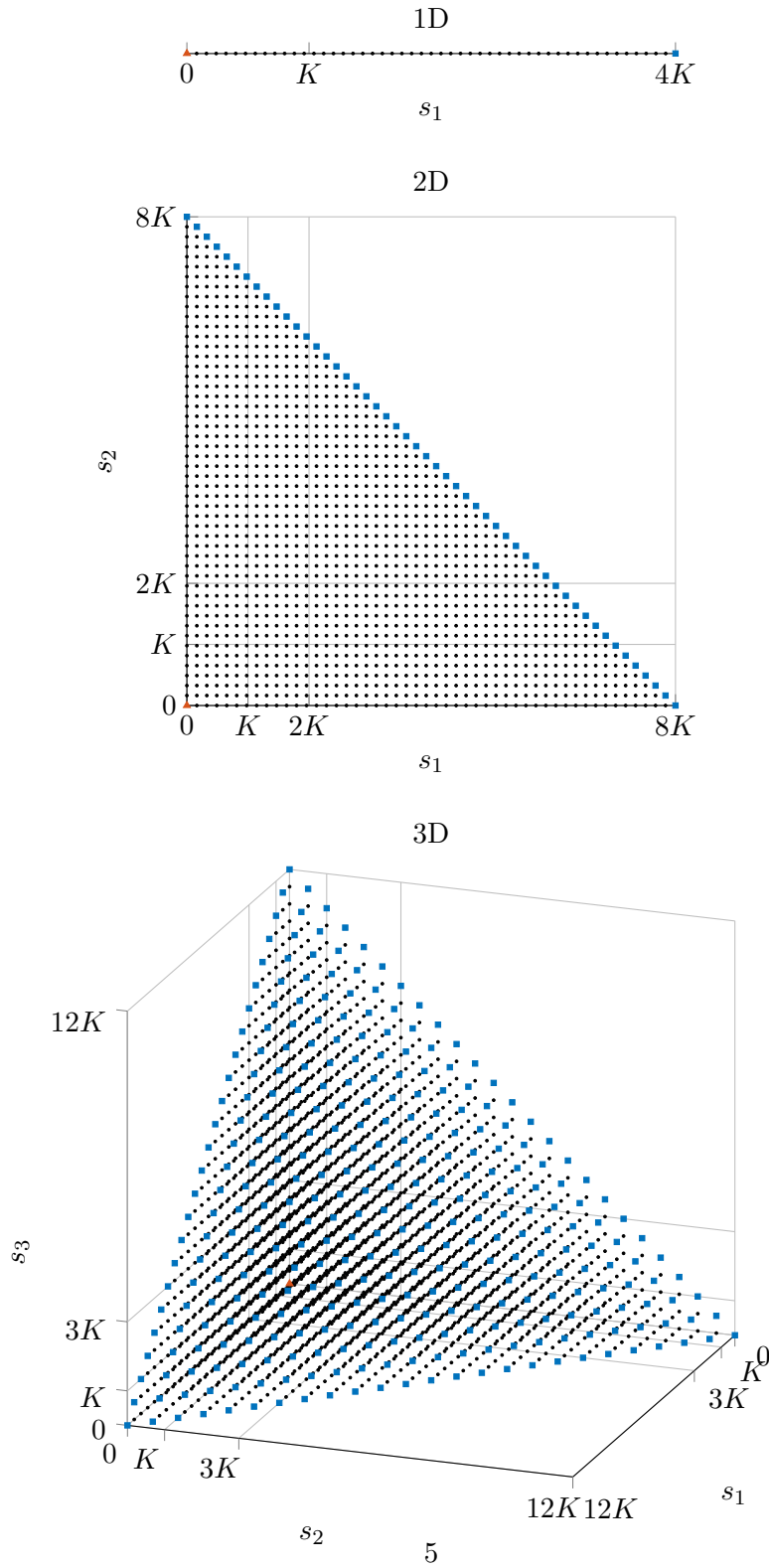
2.1   Different Dimensions

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 Histograms
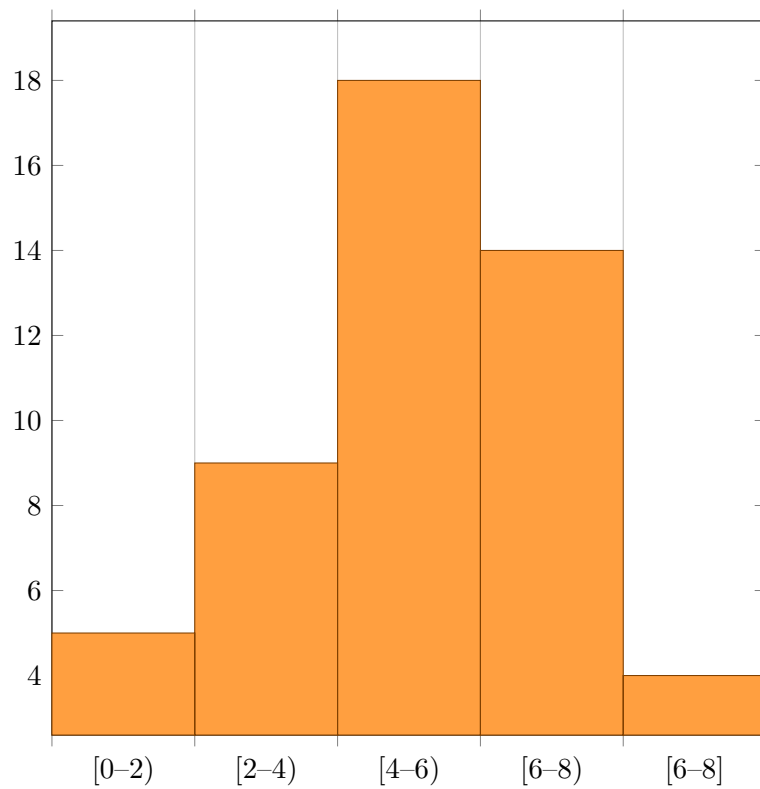
Here is a basic histogram.

Figure 6: *A basic histogram.*

4 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.
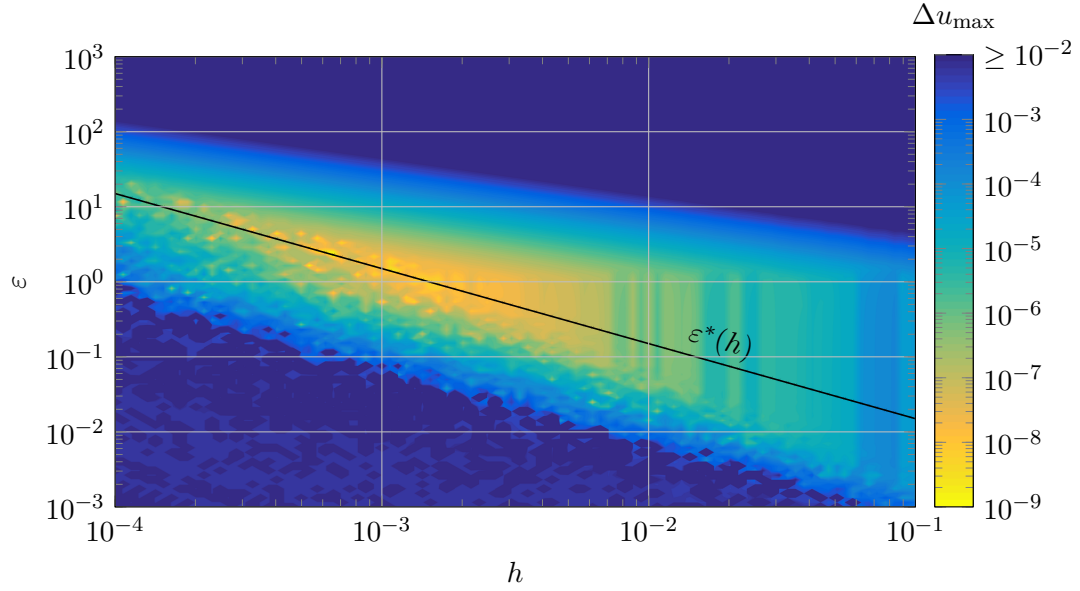

Figure 7: *The maximum absolute error $\Delta u_{\max}$ measured in the subdomain $\hat{\Omega} = [\frac{1}{3}K, \frac{5}{3}K]$ around the strike price K, as a function of h and ε, for a one-dimensional European call option priced on an equidistant Cartesian grid with RBF-FD stencil size $n = 3$. The black line shows the appropriate choice for the shape parameter. The RBF-FD approximation is performed using GA basis functions.*