

## How to use program SDTSimple

When the program SDTSimple starts, a window shown in Figure 1 appears. After setting data in the DataGridView control, click on the Calc button. Then calculation

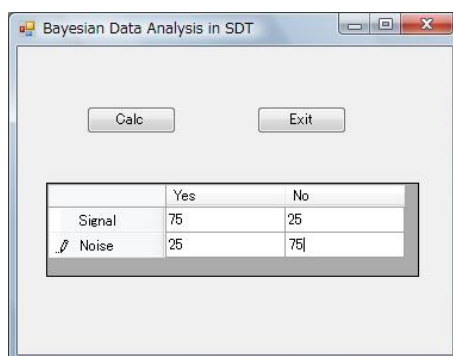


Figure 1. A form window, which appears when SDTSimple starts.

starts. After the calculation ends, the posterior distribution of  $\mu_s$ , that is  $d'$ , is displayed in the window as shown in Figure 2. By clicking on the  $k$ -distri button in the window (Figure 3), the posterior distribution of  $k$  is shown (Figure 4). The 95%

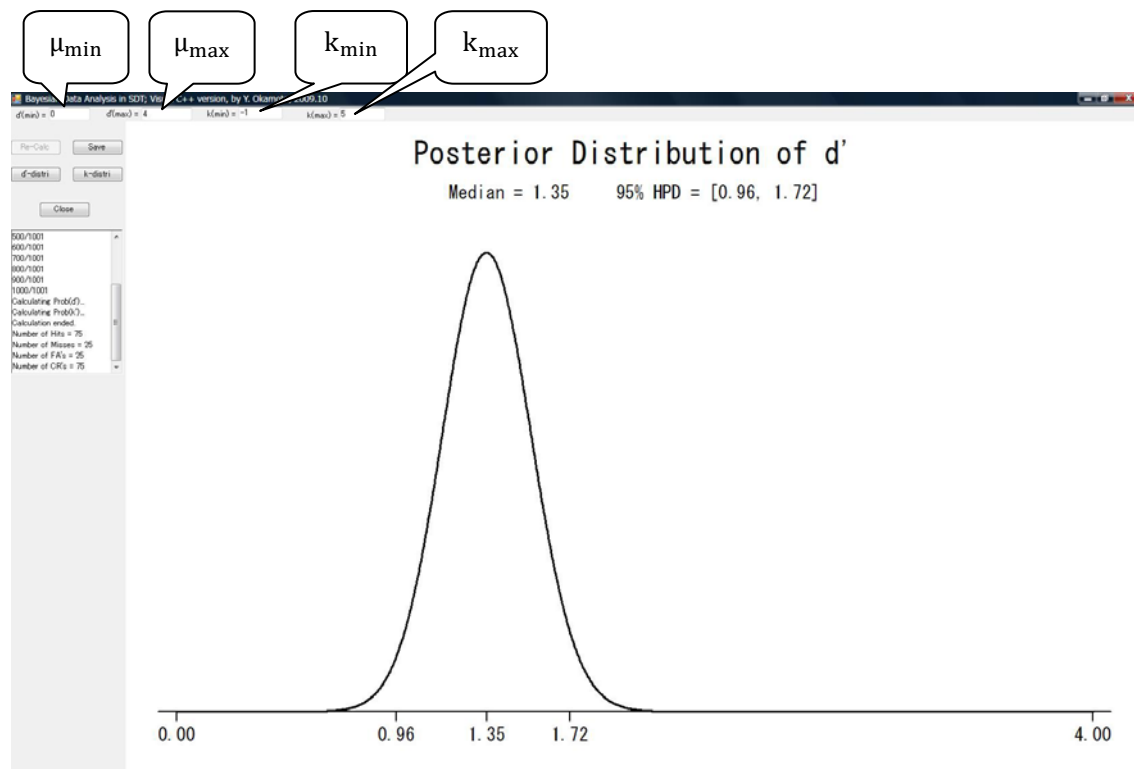


Figure 2. Graphical display of the posterior distribution of  $\mu_s = d'$ .

Y. Okamoto

Highest Probability Density (HPD) interval is estimated by the Chen-Shao HPD estimation algorithm (Chen, Shao and Ibrahim, 2000).

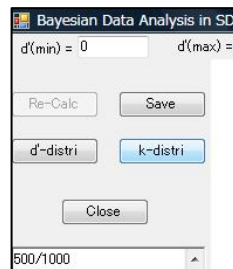


Figure 3. Buttons in the window shown in Fig 2.

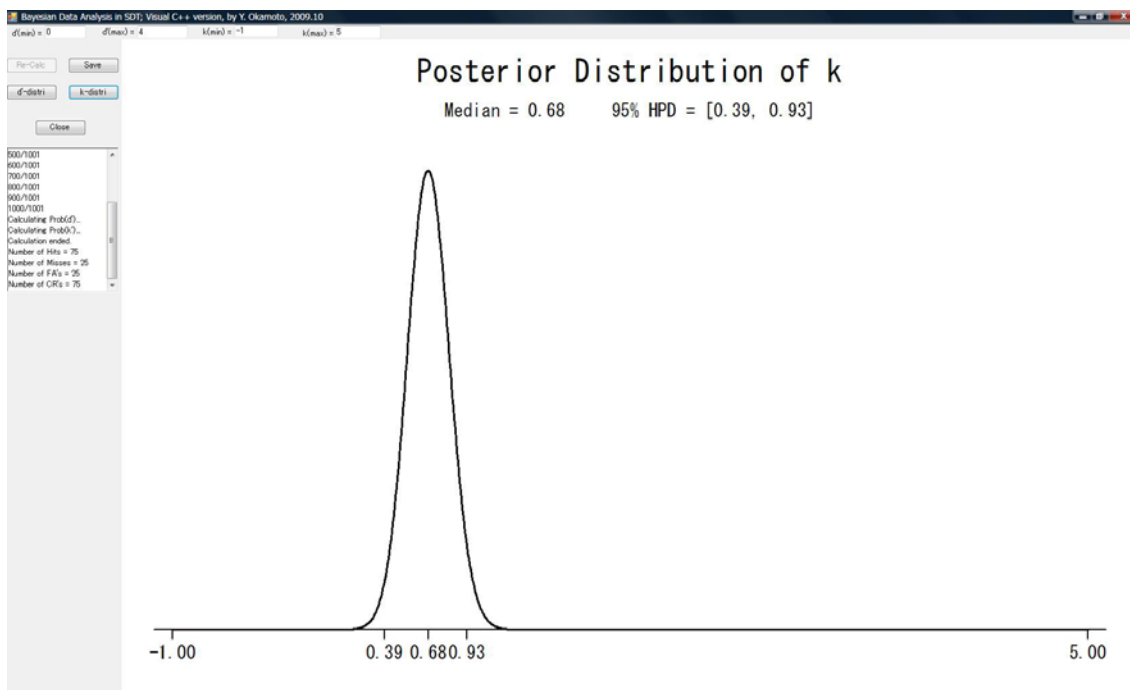


Figure 4. Graphical display of the posterior distribution of  $k$ .

Minimum and maximum values of  $\mu_s$  and  $k$  can be changed by setting the desired values in the TextBox controls (Figure 2) and clicking on the Re-Calc button so that the posterior distributions are displayed in appropriate sizes (Figures 5 and 6).

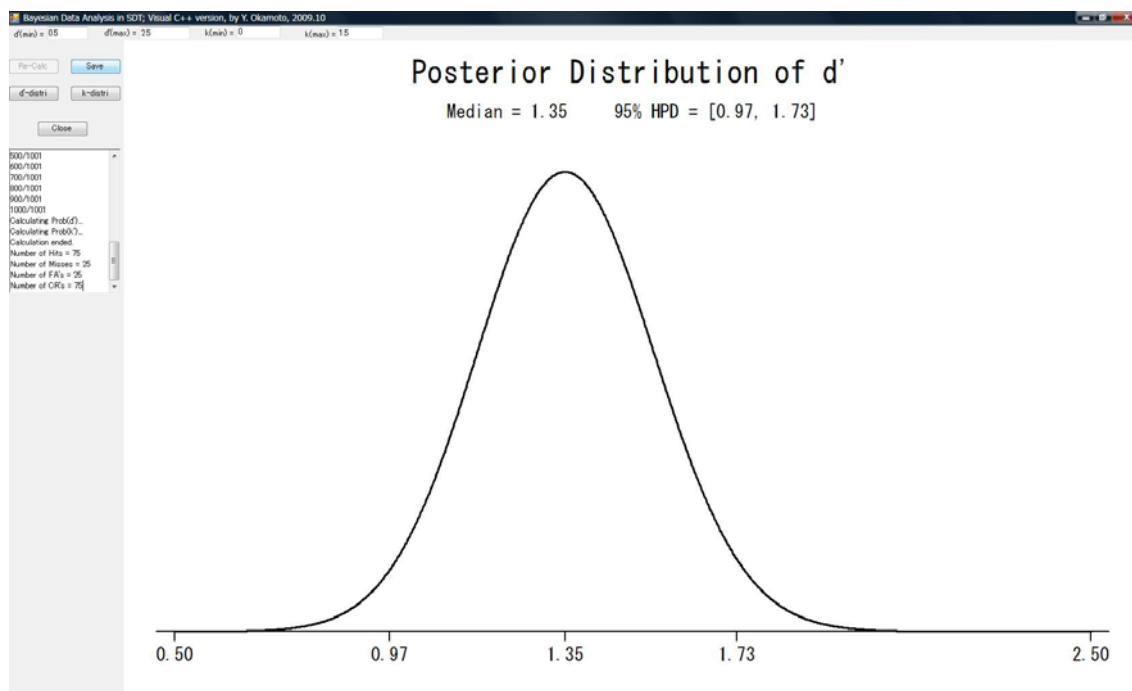


Figure 5. Re-drawn curve of  $d'$  for an adjusted interval.

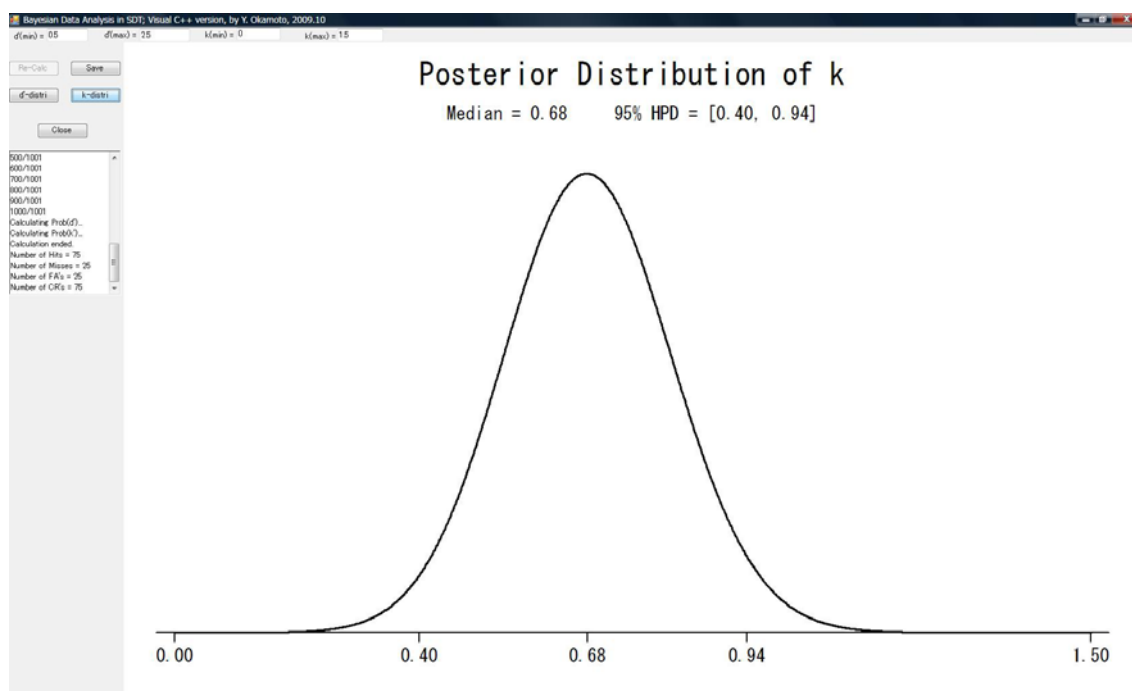


Figure 6. Re-drawn curve of  $k$  for an adjusted interval.