Supplementary Material

1 Testing Tool

For the purpose of testing the effect of our adjustment technique, we have implemented a testing tool. The tool offers many synthetic and real world data sets for display, as well as the possibility to add own datasets. It allows to continuously manipulate parameter P and compare the effect to standard PCP renderings. It is also possible to manipulate all other relevant parameters, namely the constant line width factor $\bar{h}$, opacity, axis height, axis spacing, line colour, and rendering technique.

1.1 Launch

Loading data files locally is disabled in browsers for security reason. Therefore, a local webserver has to be started; this can be easily done with Python.

Please navigate inside the main directory of the ZIP-file (which also includes this PDF and the *index.html*. From this directory, execute:

```
python −m http.server
```

Now you can access the testing tool from the URL displayed, which is usually *localhost:8000.*

1.2 Documentation

On the left side, the regular PCPs (including distortion and ghost clusters) are displayed. In the right side, our slope-dependent adjustment technique can be applied to either line width (which is pre-selected) or opacity (which is just experimental) by checking the respective boxes. In either case, parameter P determines the strength of the effect and is also only applied to the right-hand PCP. Parameter $\bar{h}$ refers to a constant line height factor, which is also only applied to the PCP on the right.

The other parameters are the constant parts of line width and line opacity, the height and spacing of the axes and the colour, including a multi-colour option. All these parameters apply to the PCPs on both sides.

Rendering can be switched to rendering lines as polygonal parallelograms. In this case, parameter P has no effect any longer.

1.3   Add own datasets

Own datasets can be added as *csv*-files in the subdirectory *data/own/*. File names have to be added to the *list.js* file inside this directory. An optional column *cluster* may be used for the multi-colour display option.

1.4   Anonimity

All external dependencies of the tool are included locally. The tool can therefore be run without an internet connection to ensure the anonimity of the review process.
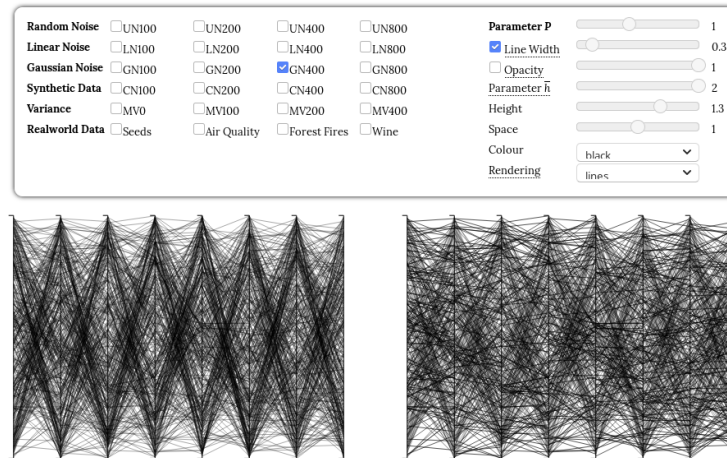
1.5   Website

On acceptance, we will make the tool freely available on our website.

Figure 1: Screenshot of the tool.