Appendix

The coefficient matrix *A* and the right–hand side matrix *B* used in Section 6.3 of "A BreakdownFree Block Conjugate Gradient Method" by Hao Ji and Yaohang Li [1] are presented below.

14.7026896764278 16.6581592592829 17.7634024982886 13.6288388058580 12.6121271222844 12.0449732854894 14.8004340755219 6.47584364565590 6.74411759716316 11.8855805421895 14.5027264215831 12.0968055881465 16.0640864509010 14.2012968909398 6.14231789000198 15.6000866949538 15.6521797575797 17.5486159107531 11.8376249537951 13.0217718614950 9.62150309966732 9.91145010305920 7.70562137370861 19.8270052266075 17.6325001345481 102.912724285154 13.9592217854341 6.65030637918623 15.6299996128245 16.3450359607153 13.9592217854341 106.578021459235 7.87956983883075 10.6885329046362 7.63921835027445 6.65030637918623 7.87956983883075 113.736168684120 8.30021275368670 18.8043098692214 15.6299996128245 10.6885329046362 8.30021275368670 108.648495445339 20.4504103006764 16.3450359607153 7.63921835027445 18.8043098692214 20.4504103006764 117.313312551535

```
B = \begin{bmatrix} 0.719862394959852 & 7.19862399356066 \\ 0.298498062508485 & 2.98498066864206 \\ 0.719943073352362 & 7.19943077821203 \\ 0.470645548592634 & 4.70645553655237 \\ 0.213065120059020 & 2.13065123100835 \\ 0.635136176538378 & 6.35136184705153 \\ 0.338215520218286 & 3.38215526612211 \\ 0.274120126028595 & 2.74120129843795 \\ 0.243954498892080 & 2.43954507177449 \\ 0.630536116636262 & 6.30536119819008 \end{bmatrix}
```

References

 Ji, H., Li, Y.: A breakdown-free block Conjugate Gradient method. BIT Numer. Math. (2016). Under review