



Correction to: On the preconditioned AOR iterative method for Z-matrices

Davod Khojasteh Salkuyeh¹ · Mohsen Hasani² · Fatemeh Panjeh Ali Beik³ · Juan Song⁴ · Yongzhong Song⁵

Published online: 13 April 2020

© SBMAC - Sociedade Brasileira de Matemática Aplicada e Computacional 2020

Correction to: Comp. Appl. Math. (2017) 36:877–883
<https://doi.org/10.1007/s40314-015-0266-8>

In the proof of Theorem 3 in Salkuyeh et al. (2017a), to have

$$(\tilde{L}(\alpha^{(1)}) - \tilde{L}(\alpha^{(2)}))_{ij} = \sum_{k=1, k \neq i}^n (\alpha_{ik}^{(1)} - \alpha_{ik}^{(2)}) a_{ik} a_{kj} \leq 0,$$

the assumption

$$\sum_{k=1, k \neq i}^n (\alpha_{ik}^{(1)} - \alpha_{ik}^{(2)}) a_{ik} a_{kj} \leq 0, \quad (1)$$

should be added to the statement of theorem and its proof remains true without any changes.

In fact, the proof of Theorem 3 in Salkuyeh et al. (2017a) follows from a similar strategy used in Salkuyeh et al. (2017b, Theorem 2.3) where a restriction analogous to (1) had been already assumed in the statement of theorem; see Salkuyeh et al. (2017b, cf. (2.2)). Basically, the assumption (1) could be naturally set. However, after extension of results in the final revision, the condition (1) was removed by mistake from the statement of theorem.

References

- Salkuyeh DK, Hasani M, Beik FPA (2017a) On the preconditioned AOR iterative method for Z-matrices. *Comp Appl Math* 36:877–883
- Salkuyeh DK, Hasani M, Beik FPA (2017b) On the preconditioned AOR iterative method for Z-matrices, [arXiv:1106.5087](https://arxiv.org/abs/1106.5087)

Communicated by Jinyun Yuan.

The original article can be found online at <https://doi.org/10.1007/s40314-015-0266-8>.

✉ Davod Khojasteh Salkuyeh
salkuyeh@gmail.com; khojasteh@guilan.ac.ir

Extended author information available on the last page of the article

Publisher's Note Springer Nature remains neutral with regard to jurisdictional claims in published maps and institutional affiliations.

Affiliations

Davod Khojasteh Salkuyeh¹ · Mohsen Hasani² · Fatemeh Panjeh Ali Beik³ · Juan Song⁴ · Yongzhong Song⁵

Mohsen Hasani
hasani.mo@gmail.com

Fatemeh Panjeh Ali Beik
f.beik@vru.ac.ir

Juan Song
song12368@163.com

Yongzhong Song
yzsong@nju.edu.cn

- ¹ Faculty of Mathematical Sciences, University of Guilan, P.O. Box 1914, Rasht, Iran
- ² Faculty of Science, Department of Mathematics, Islamic Azad University, Shahrood, Iran
- ³ Department of Mathematics, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran
- ⁴ School of Science, Jiangnan University, Wuxi 214122, P. R. China
- ⁵ Jiangsu Key Laboratory for NSLSCS, School of Mathematical Sciences, Nanjing Normal University, Nanjing 210097, P. R. China