

论文信息

论文编号:	BF3YJBUQMT
论文名称:	Propagation Path Loss Modeling in Stacked Containers Environments
摘要:	The container terminals and carriers are regarded as a challenging wireless communication environment, caused by the metallic walls of container and the corners with the resulting multipath and shadow effect. Accurate propagation modeling of it is helpful for node deployment and channel estimation. However, existing researches mostly focus on obstacles on the macro-scale, and rarely analyze the small-scale propagation characteristics, such as the propagation characteristics along the gaps between containers. Thus there is also a lack of engineering practical path loss model. In this paper, we first study the propagation environment of the stacked containers. Then we propose a path loss model for gaps between containers based on geometric analysis. The proposed path loss model matches well with ground truth value.
关键词:	wireless communication, stacked containers, path loss model, geometric analysis

评审意见

评审意见: 返修

评审时间: 2021-10-09

1、Is the paper clearly presented and well organized?

☐ YES ☒ NO

2、Is the English satisfactory?

☐ YES ☒ NO

3、Is the title appropriate?

☐ YES ☒ NO

4、Are the figures, tables, and their captions clear?

☐ YES ☒ NO

5、Are the references to related work adequate?

☐ YES ☒ NO

6、Scientific Quality

- ☐ Contains significant contributions to the advancement of the subject.
- ☒ Sound, original, and of interest.
- ☐ Does not add to knowledge of the subject.
- ☐ Contains fundamental errors.

7、Recommendation

- ☐ Publish as it is.
- ☒ Publish with minor revision noted in evaluation statement.
- ☐ Publish with major revision.
- ☐ Reject.

8、Is this article relevant to the subject coverage of the conference?

☒ Yes ☐ No

9、Is the title appropriate?

☒ Yes ☐ Suggestions in comments

10、Does the article include the following parts? (多选)

- ☒ Author information
- ☒ Abstract
- ☒ Introduction
- ☒ Methods and Materials
- ☒ Conclusions
- ☒ References

11、Does the abstract concisely state the following parts? (多选)

- ☐ Background
- ☐ Context
- ☐ Conclusions
- ☒ See comments below

12、Does the introduction concisely state the following parts? (多选)

- ☐ Background
- ☐ The objective of the work

- ☐ Why this objective is important
- ☒ See comments below

13. Is the conclusions part well written? (多选)

- ☐ Reemphasizes the main points
- ☐ States the significance of the work
- ☐ Offers a solution, or suggests a further study
- ☒ See comments below

14. Is the paper clearly presented and logically organized?

- ☐ Yes
- ☐ No
- ☒ See comments below

15. Are the figures, tables and their captions clear and put in order?

- ☐ Yes
- ☐ No
- ☒ See comments below

16. Are the references to related work adequate, and well cited?

- ☐ Yes
- ☐ No
- ☒ See comments below

17. Were there any grammatical or spelling problems?

- ☒ No
- ☐ A few
- ☐ Many

18. Recommendation

- ☐ Publish as it is
- ☒ Publish with minor revision noted in evaluation statement
- ☐ Publish with major revision
- ☐ Reject

19. Detailed comments to author: Please summarize the reasons for your recommendation and provide your constructive comments to the author(s) below for improving and revising their paper. (填空)

1. 建议为念参考13, 14, 15可以对应参考百度学术的引用; 2. 建议每个公式排序, 例如公式3.5, 3, 6, 3.7 可以右对其; 3. In this scenario, containers made of alloy steel constantly reflect wireless signals, making the receiver affected by multipath effect. 建议讨论the receiver的定义。这里可能在上下文阅读中, the receiver 是航行中的零件? 这里可以加以讨论; 4. 建议加上冠词the或者讨论相应部件的容器 Containers will be densely placed with certain space in the direction of length, width and height. 5. 结论部分的, 建议第一句话突出论点盒研究结果。例如A GAP PATH LOSS model建议可以在概述中提起, 对应accuracy propagation modeling; 备注: 烦请作者在一周内修改, 避免出版细节问题。