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APPENDIX

Appendix 1. Soundscape assessment questionnaire

"Exploration of Human Perception in Urban and Rural Soundscapes through EEG-Based Measurement" Questionnaire

* Indicates required question

您好，感謝您願意參與「透過基於腦電圖的測量探索城市和鄉村聲音景觀中的人類感知」的研究。以下是一份包含研究問題陳述的問卷。參與者的所有個人資訊將被保密，僅用於研究目的。如有不清楚的地方，可以向研究負責人詢問。謝謝。

Hello, thank you for your willingness to participate in the research "Exploration of Human Perception in Urban and Rural Soundscapes through EEG-Based Measurement". The following is a questionnaire containing questions - statements for the research. All personal information of participants will be kept confidential and used only for research purposes. If there is anything unclear, you can ask the person in charge of the research. Thank you.

個人人口統計資訊

Personal Demographic Information

1. 1. 姓名 *

Name

2. 2. 性別 *

Sex

Mark only one oval.

- ☐ 男性 (Male)
- ☐ 女性 (Female)
- ☐ 寧願不說 (Rather not say)

3. 3. 年齡 *

Age

4. 4.過去10年您居住在哪裡？（請寫區/市/縣） *

Where do you live in the past 10 years? (please write the district/city/county)

問卷 Questionnaire

根據您剛剛聽到的聲音所引起的感知和感受，盡可能誠實地回答以下問題。

Answer the following questions as honestly as possible based on your perceptions and feelings caused by the sounds you just heard.

5. 您去公園或自然綠地的目的是什麼？ *

What is your purpose of going to the park or natural green spaces?

如果您已完成以上問題，請告知作者

我們將從城市音景開始聆聽音訊。

If you are done filling questions above, please tell the author.

We will listen to the audio start from urban soundscape.

屬性評估 聲景

Soundscape Attribute Assessment

以下是聲景屬性的評估。您將獲得 6 個音頻音景。完成 1 個音訊後，您將根據李克特量表對 8 個音景屬性進行評分。

Here is the assessment of soundscape attributes. You will be given 6 audio soundscapes. After completing 1 audio, you will rate 8 soundscape attributes on a Likert scale.

評分量表值為 1 - 5 (非常不同意 - 非常同意)

The rating scale value is 1 - 5 (Strongly Disagree - Strongly Agree)

6. UP1

*

您在多大程度上同意以下有關您剛剛聽到的音景的 8 個屬性？

To what extent do you agree with the 8 attributes below regarding the soundscape you just listened to?

Mark only one oval per row.

	1	2	3	4	5
愉悅的 [Menyenangkan] (Pleasant)	☐	☐	☐	☐	☐
混亂的 [Ribut] (Chaotic)	☐	☐	☐	☐	☐
充滿活力的 [Bersemangat] (Vibrant)	☐	☐	☐	☐	☐
事件單一的 [Sepi] (Uneventful)	☐	☐	☐	☐	☐
平靜的 [Tenang] (Calm)	☐	☐	☐	☐	☐
惱人的 [Mengganggu] (Annoying)	☐	☐	☐	☐	☐
事件豐富的 [Ramai] (Eventful)	☐	☐	☐	☐	☐
單調乏味的 [Menjemukkan] (Monotonous)	☐	☐	☐	☐	☐

把眼罩戴回去。我們繼續聽下一個音頻。

Put on your eye mask again. We will continue to next audio.

7. UP2

★

您在多大程度上同意以下有關您剛剛聽到的音景的 8 個屬性？

To what extent do you agree with the 8 attributes below regarding the soundscape you just listened to?

Mark only one oval per row.

	1	2	3	4	5
愉悅的 [Menyenangkan] (Pleasant)	☐	☐	☐	☐	☐
混亂的 [Ribut] (Chaotic)	☐	☐	☐	☐	☐
充滿活力的 [Bersemangat] (Vibrant)	☐	☐	☐	☐	☐
事件單一的 [Sepi] (Uneventful)	☐	☐	☐	☐	☐
平靜的 [Tenang] (Calm)	☐	☐	☐	☐	☐
惱人的 [Mengganggu] (Annoying)	☐	☐	☐	☐	☐
事件豐富的 [Ramai] (Eventful)	☐	☐	☐	☐	☐
單調乏味的 [Menjemukkan] (Monotonous)	☐	☐	☐	☐	☐

把眼罩戴回去。我們繼續聽下一個音頻。

Put on your eye mask again. We will continue to next audio.

8. UP3

*

您在多大程度上同意以下有關您剛剛聽到的音景的 8 個屬性？

To what extent do you agree with the 8 attributes below regarding the soundscape you just listened to?

Mark only one oval per row.

	1	2	3	4	5
愉悅的 [Menyenangkan] (Pleasant)	☐	☐	☐	☐	☐
混亂的 [Ribut] (Chaotic)	☐	☐	☐	☐	☐
充滿活力的 [Bersemangat] (Vibrant)	☐	☐	☐	☐	☐
事件單一的 [Sepi] (Uneventful)	☐	☐	☐	☐	☐
平靜的 [Tenang] (Calm)	☐	☐	☐	☐	☐
惱人的 [Menggangu] (Annoying)	☐	☐	☐	☐	☐
事件豐富的 [Ramai] (Eventful)	☐	☐	☐	☐	☐
單調乏味的 [Menjemukkan] (Monotonous)	☐	☐	☐	☐	☐

9. 在您聽過的聲音景觀中，哪些聲音最能吸引您的目光？ *

What sounds most attract your attention from the soundscape you have listened to?

Mark only one oval.

- ☐ 自然聲音 (Natural Sounds)
- ☐ 人類的聲音 (Human Sounds)
- ☐ 交通聲音 (Traffic Noise)
- ☐ 其他聲音 (Other Sound)

10. 當你聽到這些聲音時，你會有什麼樣的情感？ *

What kind of emotions do you experience when hearing these sounds?

好了，城市音景我們已經聽完了。把眼罩戴回去。我們將繼續聆聽鄉村音景。

Now, we have finished listen to urban soundscape. Put on your eye mask again. We will continue to rural soundscape audio.

評分量表值為 1 - 5 (非常不同意 - 非常同意)

The rating scale value is 1 - 5 (Strongly Disagree - Strongly Agree)

11. **RP1**

★

您在多大程度上同意以下有關您剛剛聽到的音景的 8 個屬性？

To what extent do you agree with the 8 attributes below regarding the soundscape you just listened to?

Mark only one oval per row.

	1	2	3	4	5
愉悅的 [Menyenangkan] (Pleasant)	☐	☐	☐	☐	☐
混亂的 [Ribut] (Chaotic)	☐	☐	☐	☐	☐
充滿活力的 [Bersemangat] (Vibrant)	☐	☐	☐	☐	☐
事件單一的 [Sepi] (Uneventful)	☐	☐	☐	☐	☐
平靜的 [Tenang] (Calm)	☐	☐	☐	☐	☐
惱人的 [Mengganggu] (Annoying)	☐	☐	☐	☐	☐
事件豐富的 [Ramai] (Eventful)	☐	☐	☐	☐	☐
單調乏味的 [Menjemukkan] (Monotonous)	☐	☐	☐	☐	☐

把眼罩戴回去。我們繼續聽下一個音頻。

Put on your eye mask again. We will continue to next audio.

12. **RP2**

★

您在多大程度上同意以下有關您剛剛聽到的音景的 8 個屬性？

To what extent do you agree with the 8 attributes below regarding the soundscape you just listened to?

Mark only one oval per row.

	1	2	3	4	5
愉悅的 [Menyenangkan] (Pleasant)	☐	☐	☐	☐	☐
混亂的 [Ribut] (Chaotic)	☐	☐	☐	☐	☐
充滿活力的 [Bersemangat] (Vibrant)	☐	☐	☐	☐	☐
事件單一的 [Sepi] (Uneventful)	☐	☐	☐	☐	☐
平靜的 [Tenang] (Calm)	☐	☐	☐	☐	☐
惱人的 [Mengganggu] (Annoying)	☐	☐	☐	☐	☐
事件豐富的 [Ramai] (Eventful)	☐	☐	☐	☐	☐
單調乏味的 [Menjemukkan] (Monotonous)	☐	☐	☐	☐	☐

把眼罩戴回去。我們繼續聽下一個音頻。

Put on your eye mask again. We will continue to next audio.

13. **RP3**

*

您在多大程度上同意以下有關您剛剛聽到的音景的 8 個屬性？

To what extent do you agree with the 8 attributes below regarding the soundscape you just listened to?

Mark only one oval per row.

	1	2	3	4	5
愉悅的 [Menyenangkan] (Pleasant)	☐	☐	☐	☐	☐
混亂的 [Ribut] (Chaotic)	☐	☐	☐	☐	☐
充滿活力的 [Bersemangat] (Vibrant)	☐	☐	☐	☐	☐
事件單一的 [Sepi] (Uneventful)	☐	☐	☐	☐	☐
平靜的 [Tenang] (Calm)	☐	☐	☐	☐	☐
惱人的 [Menggangu] (Annoying)	☐	☐	☐	☐	☐
事件豐富的 [Ramai] (Eventful)	☐	☐	☐	☐	☐
單調乏味的 [Menjemukkan] (Monotonous)	☐	☐	☐	☐	☐

14. 在您聽過的聲音景觀中，哪些聲音最能吸引您的目光？ *

What sounds most attract your attention from the soundscape you have listened to?

Mark only one oval.

- ☐ 自然聲音 (Natural Sounds)
- ☐ 人類的聲音 (Human Sounds)
- ☐ 交通聲音 (Traffic Noise)
- ☐ 其他聲音 (Other Sound)

15. 當你聽到這些聲音時，你會有什麼樣的情感？ *

What kind of emotions do you experience when hearing these sounds?

聲景評估 Soundscape Assessment

16. 您喜歡哪種音景？ *

Which soundscape do you prefer?

Mark only one oval.

- ☐ 城市公園 (Urban Park)
- ☐ 鄉村公園 (Rural Park)

17. 給出你的理由 *

Give your reasons

問題已答完。你可以把這份問卷交給負責人。感謝您的參與。

The questions are finished. You can give this questionnaire to the person in charge. Thank you for your participation.

18. Participant Code *

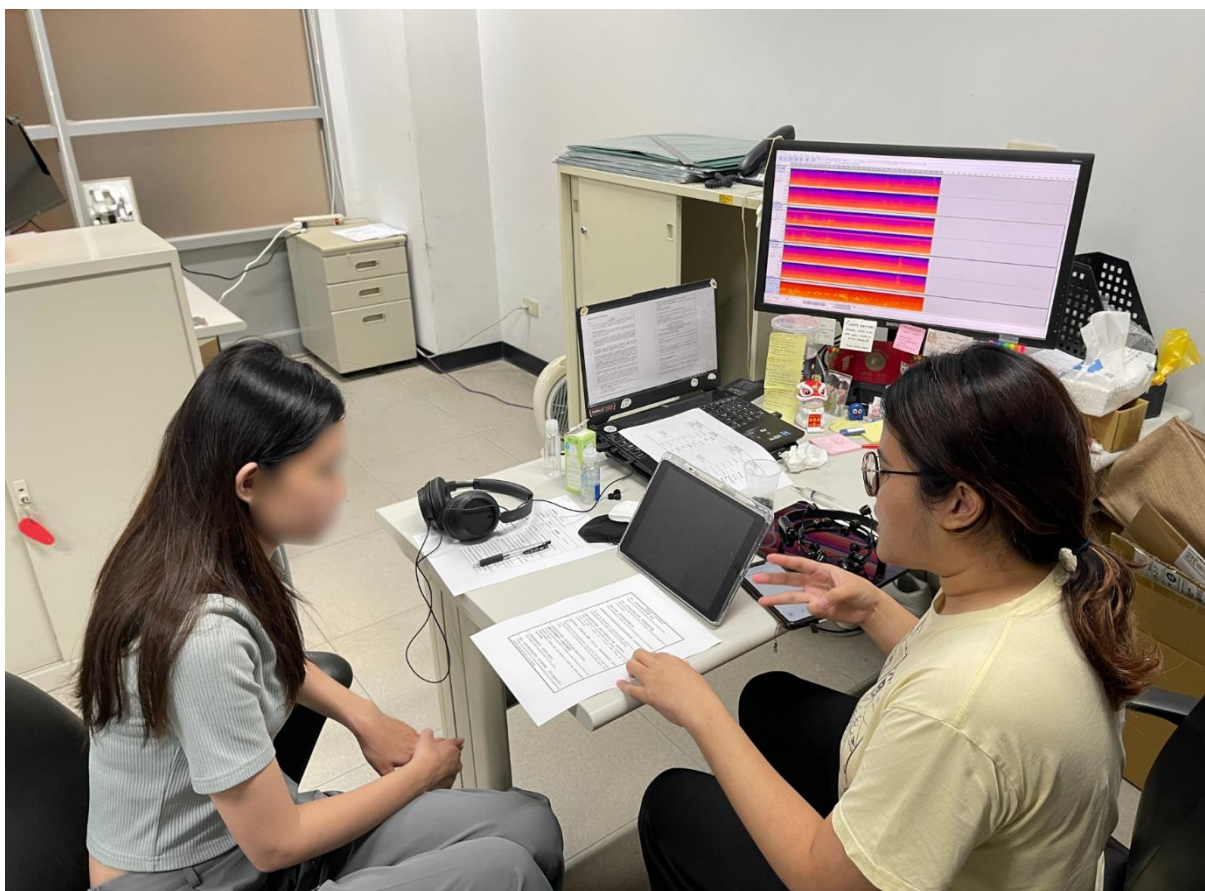
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Appendix 2. Soundscape recording set up with (1) zoom handy recorder and (2) spl meter



Appendix 3. Process of procedure explanation to participant



Appendix 4. Tools installation on participant's head



Appendix 5. Participant during EEG measurement process



Appendix 6. Participant filling the soundscape assessment questionnaire

