

Experimental Cultural Landscape Imaging and Documentation

2022-09-18

ECAI Online Workshop @ PNC 2022

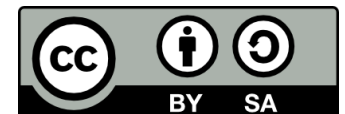
Tyng-Ruey Chuang
Institute of Information Science, Academia Sinica, Taiwan

Yu-Huang Wang
Independent Scholar

in collaboration with the *depositor* team

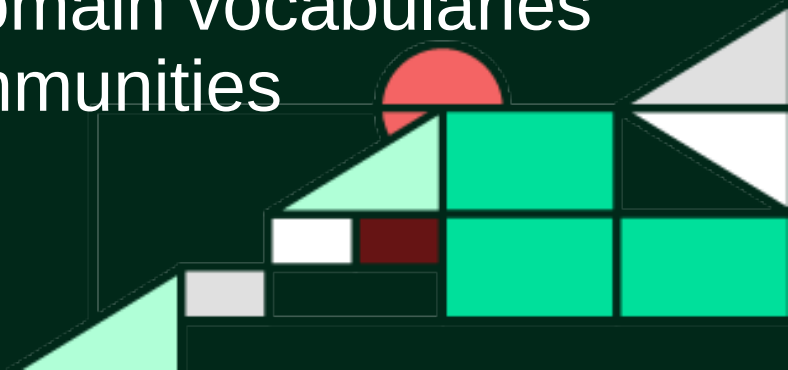


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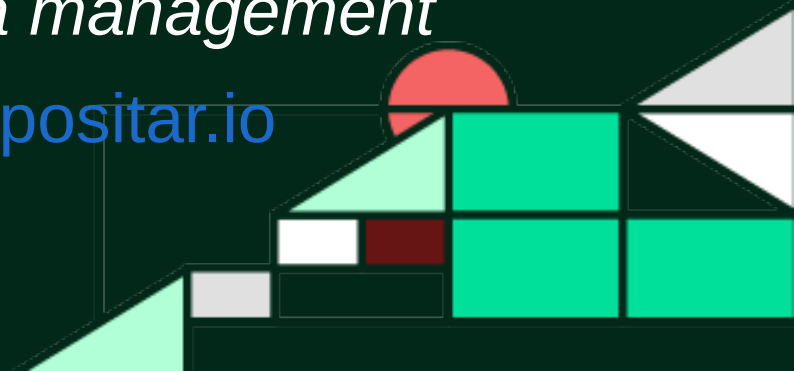
Documenting Cultural Landscapes

- Working on imprints of human activities in unwinding terrains, embedded with diverse cultural artifacts of various scales over time
- Heterogeneity of materials: audiovisual recordings, aerial and panoramic images, photos and prints, historical records and maps, field notes, chorographies, lab results, *etc.*
- Need to collate new and existing materials for research
 - moving toward collaborative documentation and enrichment
- In need of spatial, temporal, and domain vocabularies that link across collections and communities



Experimental Imaging and Documentation

- Image capture first; analysis and reuse later
 - e.g. systematic panoramic and UAV imagery
 - collections of images over time by various devices
 - a “multiple exposure” of the culture landscape
 - detailed documentation of the imaging process
- The use of research data repositories for collaborative cultural landscape imaging and documentation
 - for both archiving and *active data management*
 - an exemplary repository: data.depositar.io





Bird Candy Bird Han ...

February 18, 2014 · 🌐

(拍攝：Hsin-ru Lee)
舊建築是城市的無價之寶。離南港瓶蓋工廠不遠的一個台鐵機廠廢墟。斑駁的水泥牆長滿植物，這裡遺留下東南亞移工打拼的痕跡，人去樓空的辦公室裡，抽屜雜物撒一地。這裡也是我和幾個塗鴉人一起"上班"的地方，也是接待外國塗鴉友人的好地點。
從過年前，緬甸旅途接近尾聲開始，就不停的道別，和不同的人道別，和不願道別的道別，現在也得和它道別，沒來得及看最後一眼的巨大廢墟，其實是裝滿玩具的小紙箱。

👍 365 12 Comments 57 Shares

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 **Minachun Chana**

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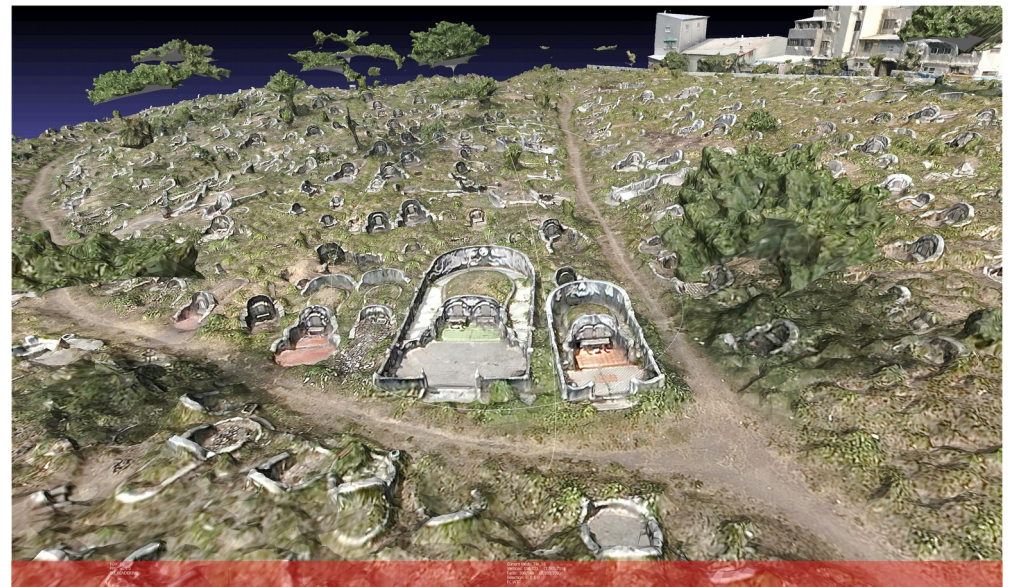
Create new acc...

A Panoramic Image on Part of The Nanshan Gravesite (Tainan, Taiwan)



UAV Mapping Products for Documenting Cultural Landscapes

- Orthophoto
 - e.g. very high-resolution source images for locating graves
- Digital surface model
 - e.g. very high-resolution elevation data for analyzing gravesite topography
- 3D point cloud and mesh
 - e.g. 3D data models for visualizing landscape and for measuring features and artifacts



2022-04-20 航拍正射影像 (Block 1) OAM WMTS

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URL: <https://tiles.openaerialmap.org/62cf72610d6f550007e7449b/0/62cf72610d6f550007e7449c/wmts>

2022-04-20 航拍正射影像 (Block 1), 發布於 OpenAerialMap 的 WMTS 服務連結。

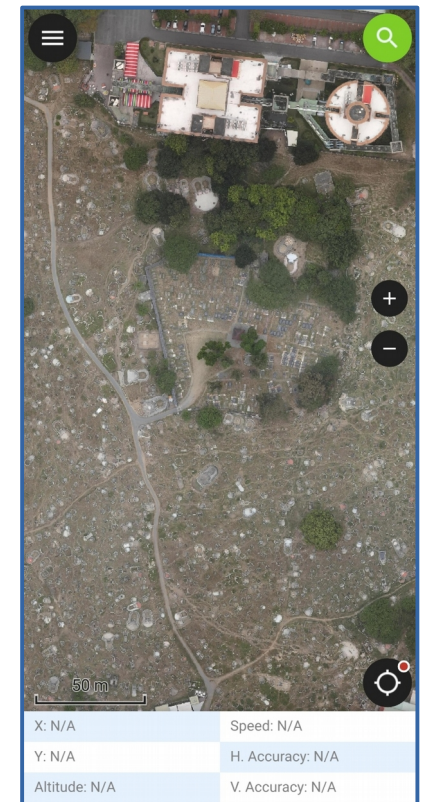
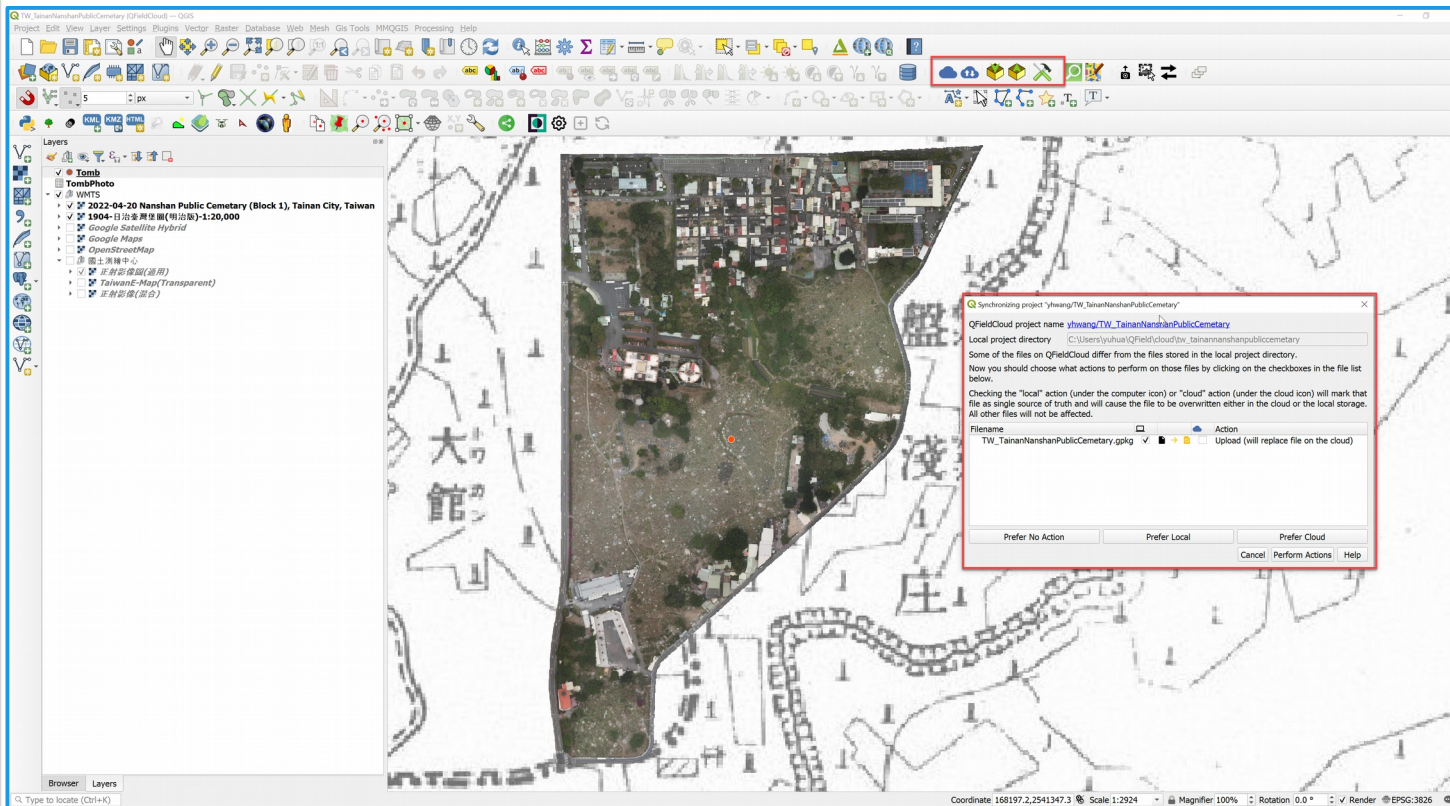
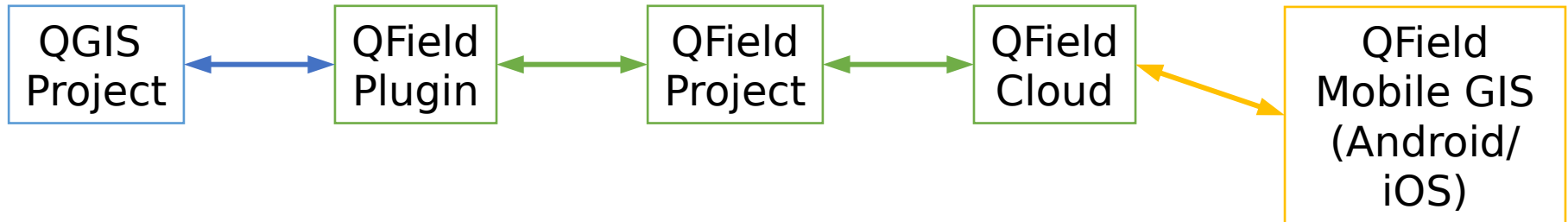
 WMTS

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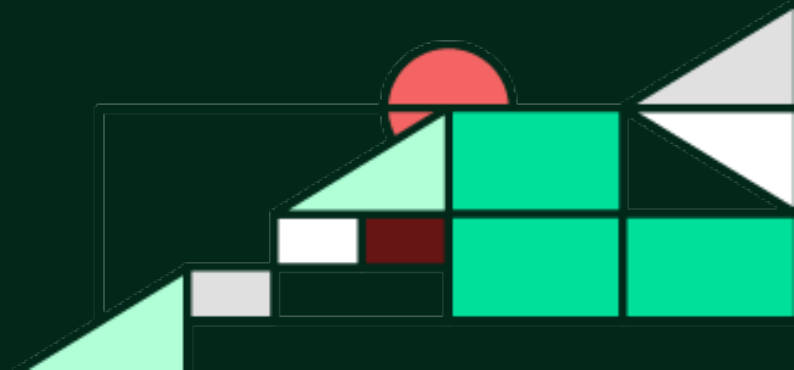


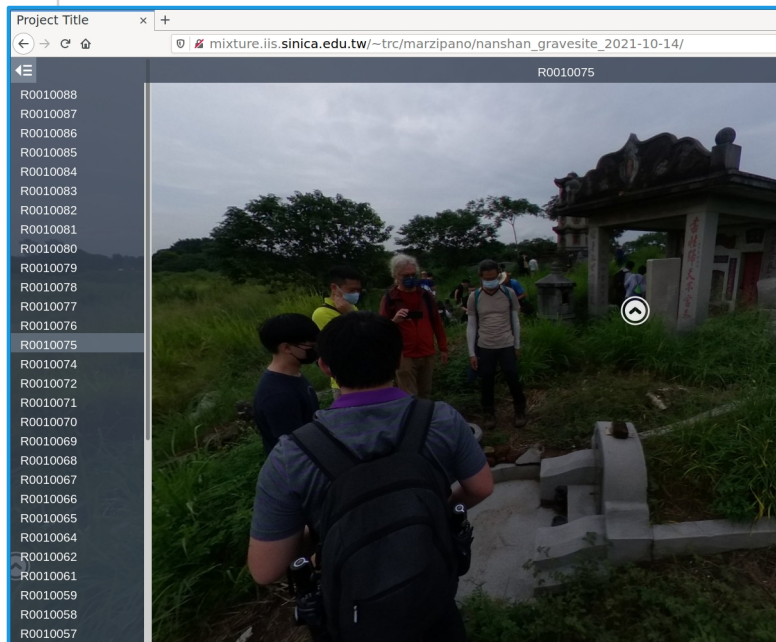
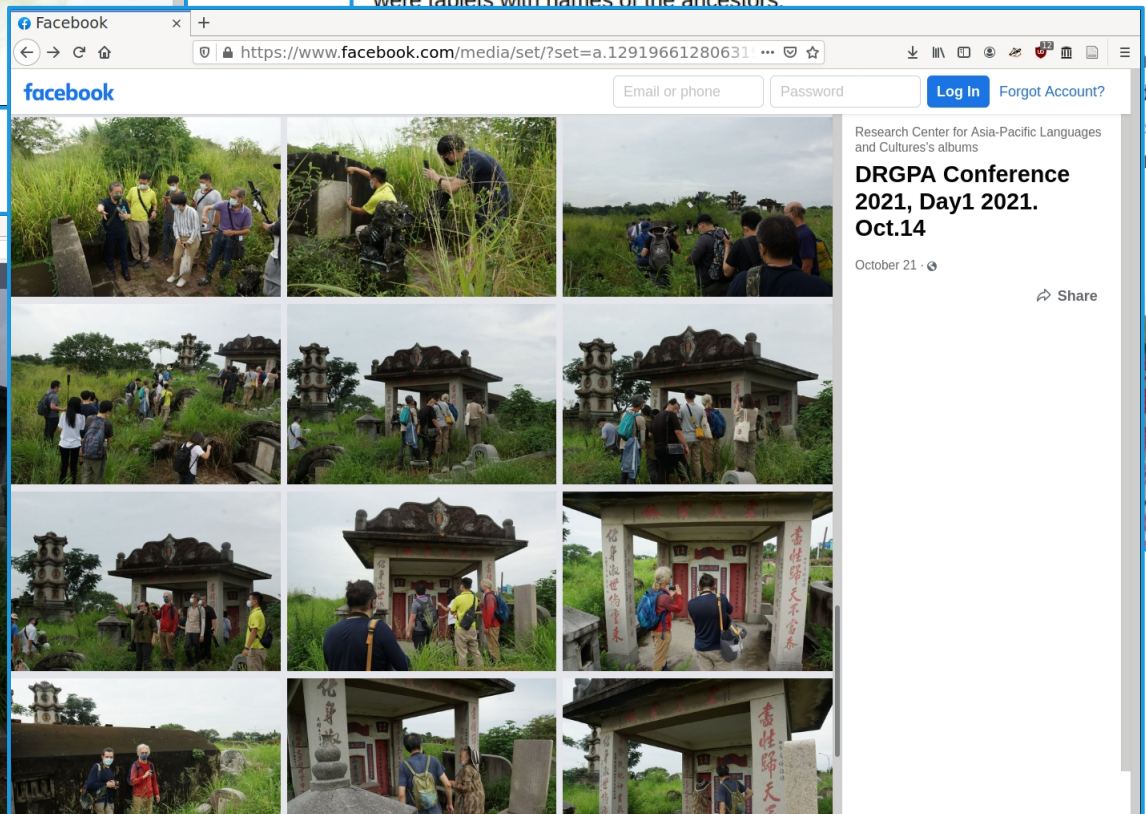
QGIS and QField Mobile GIS for Collaborative Field Data Collection and Integration



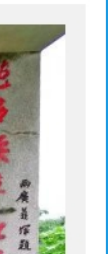
Collaborative Cultural Landscape Documentation

- *depositar* (研究資料寄存所) – a research data repository
 - open source (based on CKAN); free registration
 - features: file preview (CSV, WMTS, Shapefile, ...), Wikidata as vocabularies, Archival Resource Keys (ARKs) as PIDs, data catalogs in DCAT, machine-actionable data endpoints, etc.
 - developed and supported by Academia Sinica, Taiwan
- Example: documenting a tour to the Nanshan gravesite
 - mainly on archiving media files collected on the day
 - also for data processing and writing after the event





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A Guided Tour to the Nanshan Gravesite on 2021-10-14 | 2021-10-14 南山墓地導覽

This project documents a guided tour to the Nanshan gravesite on 2021-10-14. 此專案蒐集 2021-10-14 南山墓地導覽的紀錄。

讀取更多

追隨者 0 資料集 4

Wikidata 關鍵字

文化地景 4

臺南市 4

墳場 4

臺南南山公墓 4

竹溪 1

虛擬現實 1

全景圖 1

全球資訊網 1

資料集 動態牆 關於

搜尋資料集

找到 4 個資料集

排序依照: 根據名稱

Documents Related to The Nanshan Gravesite Guided Tour | 關於該南山墓地的文件

This dataset collects documents related to the Nanshan gravesite guided tour on 2021-10-14. 此資料集收錄 2021-10-14 南山墓地導覽的...

HTML

Online Visit to The Nanshan Gravesite | 線上造訪南山墓地

This dataset collects the source materials used for the construction of a website for an online visit to the Nanshan gravesite, based on panoramic images captured during the...

HTML ZIP JPEG

Photos Related to The Nanshan Gravesite Guided Tour | 關於該南山墓地導覽的照片

This dataset collects photos related to the Nanshan gravesite guided tour on 2021-10-14. 此資料集收錄 2021-10-14 南山墓地導覽的相關...

JPEG

Writings Related to The Nanshan Gravesite Guided Tour | 關於該南山墓地導覽的書寫

This dataset collects writings related to the Nanshan gravesite guided tour on 2021-10-14. 此資料集收錄 2021-10-14 南山墓地導覽的相關...

HTML



A Guided Tour to the Nanshan Gravesite on 2021-10-14 | 2021-10-14 南山墓地導覽

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Wikidata Keywords

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virtual reality 1

panorama 1

World Wide Web 1

Datasets Activity Stream About

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4 datasets found

Order by: Name Ascending

Documents Related to The Nanshan Gravesite Guided Tour | 關於該南山墓地導覽的文件

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HTML

Online Visit to The Nanshan Gravesite | 線上造訪南山墓地

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HTML

Online Visit to The Nanshan Gravesite | 線上造訪南山墓地

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Project



A Guided Tour to The Nanshan Gravesite | 南山墓地的一場導覽

This project documents a guided tour to the Nanshan gravesite on 2021-10-14. 此專案蒐集 2021-10-14 南山墓地導覽的紀錄。 [read more](#)

Dataset Topics Activity Stream History

Online Visit to The Nanshan Gravesite | 線上造訪南山墓地

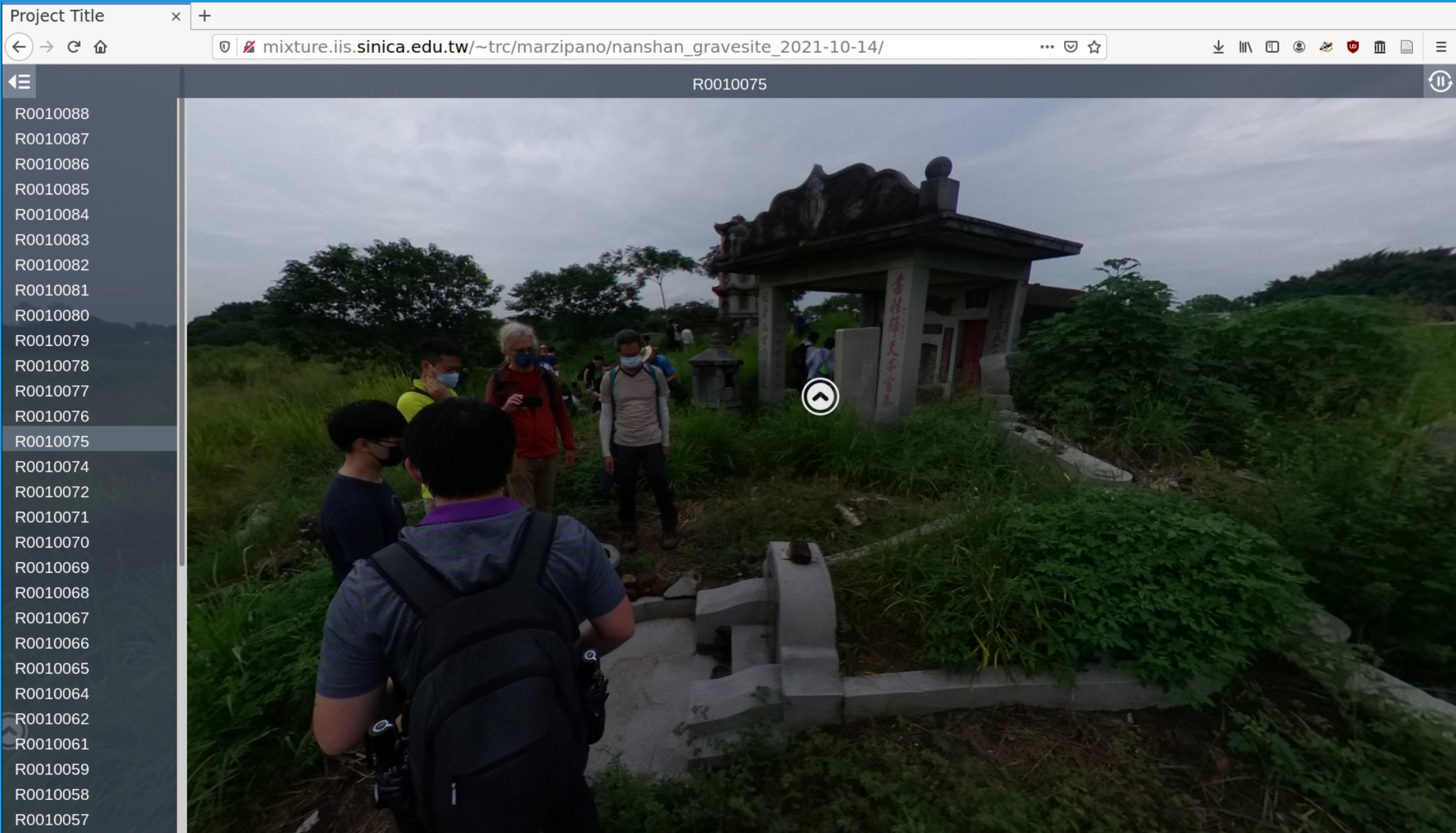
This dataset collects the source materials used for the construction of a website for an online visit to the Nanshan gravesite, based on the panoramic images captured during the guided tour on 2021-10-14. The [Marzipano tool](#) is used to create a navigable 360° view of the gravesite.

此資料集收錄 2021-10-14 南山墓地導覽時所拍攝的全景影像，並用這些全景影像製作一個線上造訪南山墓地的網站。使用 [Marzipano 工具](#) 以建立可走動的 360° 場景。

Data and Resources

- | | | |
|---|---|-------------------------|
| | Website: Visit to Nanshan Gravesite 網站：造訪南山墓地 | Explore |
| A website for an online visit to the Nanshan gravesite, based on the... | | |
| | Zipped File of The Website 整個網站壓縮檔案 | Explore |
| The website, as a zipped file, for an online visit to the Nanshan gravesite,... | | |
| | Panoramic Images of Nanshan Gravesite 南山墓地的全景影像 | Explore |
| Panoramic images captured during the guided tour to the Nanshan gravesite on... | | |
| | Marzipano Tool Video Tutorial Marzipano 工具的影音教學 | Explore |
| A YouTube tutorial about the Marzipano Tool. Marzipano 工具 YouTube 教學。 | | |

Visit the Nanshan gravesite online (built with Marzipano on panonamic images)



Writings Related to The Nanshan Gravesite Guided Tour | 關於該南山墓地導覽的書寫

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Project



A Guided Tour to The Nanshan Gravesite | 南山墓地的一場導覽

This project documents a guided tour to the Nanshan gravesite on 2021-10-14. 此專案蒐集 2021-10-14 南山墓地導覽的紀錄。 [read more](#)

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Data and Resources



[Burying Taiwan's History by Digging It Up](#)

"Burying Taiwan's History by Digging It Up", by Brian Hioe. Published in No...

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[起掘了臺灣歷史，掩埋了臺灣歷史](#)

「地上台南」臉書頁面上由劉盈成編譯自丘琦欣的文章。原文出處： "Burying Taiwan's History by Digging It Up",...

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[In Search of Ancestors](#)

"In Search of Ancestors", by Linda Gail Arrigo. Published in Taipei Times on...

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「地上台南」臉書頁面上由劉盈成編譯自艾琳達的文章。原文出處： "In Search of Ancestors", by Linda Gail...

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Tags

DRGPA 2021

地上台南

Wikidata Keywords

cultural landscape

Nanshan Public Cemetery, Tainan

cemetery

Tainan

In Search of Ancestors

Go to resource

URL: <https://www.taipeitimes.com/News/feat/archives/2021/12/07/2003769145>

"In Search of Ancestors", by Linda Gail Arrigo. Published in *Taipei Times* on December 7, 2021.

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Tue, Dec 07, 2021 page13

In search of ancestors

More thought needs to be put into the preservation of Taiwan's public cemeteries, not destroyed to make way for apartment buildings in a country with a declining birth rate

By Linda Gail Arrigo / Contributing reporter



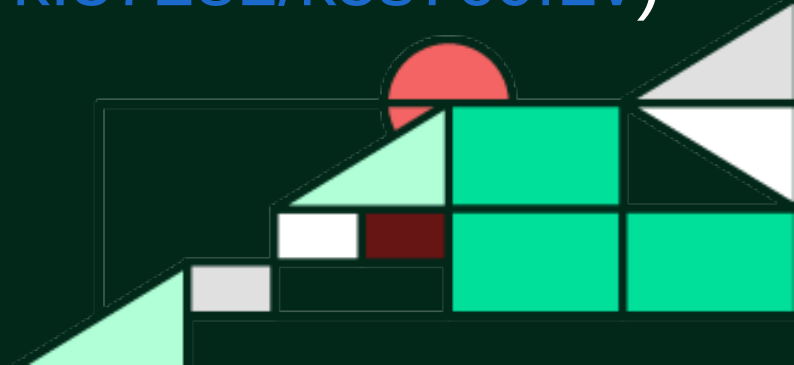
For Taiwanese in an earlier time, most of family life revolved around parents and veneration for previous generations who had passed on to their descendants the source of sustenance — land. You could see the lush green rice fields terraced up the hills, or golden with stalks bending under the grains heavy before harvest. I knew that daughters-in-law regularly placed bowls of rice and meat on family altars on which were

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Toward Collaborative Data Management

- Form cultural landscape documentation teams
- Agree on and strive to maintain good metadata
- Allow for multi-faceted search to collections
- Decide on data availability (e.g. public or private)
- Leverage external resources and services
- Curate and cite documentation collections
 - use persistent identifiers (e.g. [ark:37281/k5s7c0f1v](https://nbn-resolving.org/urn:ark:37281/k5s7c0f1v))





Search datasets...



10 datasets found

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Wikidata Keywords: cultural landscape



Filter by location

Clear



Map tiles & Data by OpenStreetMap, under CC BY-SA

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cultural landscape 10

Tainan 8

Add Dataset

High Resolution Orthoimagery of the Nanshan Public Cemetary | 南山公墓高解析正射影像

This dataset has no description

KML URL WMTS

PRIVATE Nanshan Gravesite Panoramic Images -- Ricoh Theta Z1

Panoramic images captured by a Ricoh Theta Z1 at the Nanshan Gravesite by Yu-Huang Wang. Image EXIF includes GPS data.

tar.gz JPEG

PRIVATE Nanshan Gravesite Images -- Pentax WG-3 GPS



Nanshan Gravesite...

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Visiting the Nanshan Gravesite on 2022-03-13 | 2022-03-13 造訪南山墓地

Collections of images and documents about a visit to Nanshan Gravesite. Date: 2022-03-13. Time: about 9 am to 12:00 noon. Visitor

PRIVATE Nanshan Gravesite Panoramic Images -- Ricoh Theta Z1

Panoramic images captured by a Ricoh Theta Z1 at the Nanshan Gravesite by Yu-Huang Wang.

Image EXIF includes GPS data.

Data and Resources

Nanshan Gravesite, 47 Panoramic Images, Theta Z1
47 panoramic images taken at the Nanshan Gravesite by a Theta Z1.

Explore

A Sample from the Image Collection
The first image in the collection.

Explore

A Sample (1/3) from the Image Collection,...
A sample (1/3) from the image collection, viewed at Google Map.

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A Sample (2/3) from the Image Collection,...
A sample (2/3) from the image collection, viewed at Google Map.

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A Sample (2/3) from the Image Collection,...

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URL: <https://maps.app.goo.gl/1RfAN1BBrFUTXTts5>

A sample (2/3) from the image collection, viewed at Google Map.

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Nanshan Gravesite, 47

A Sample from the...

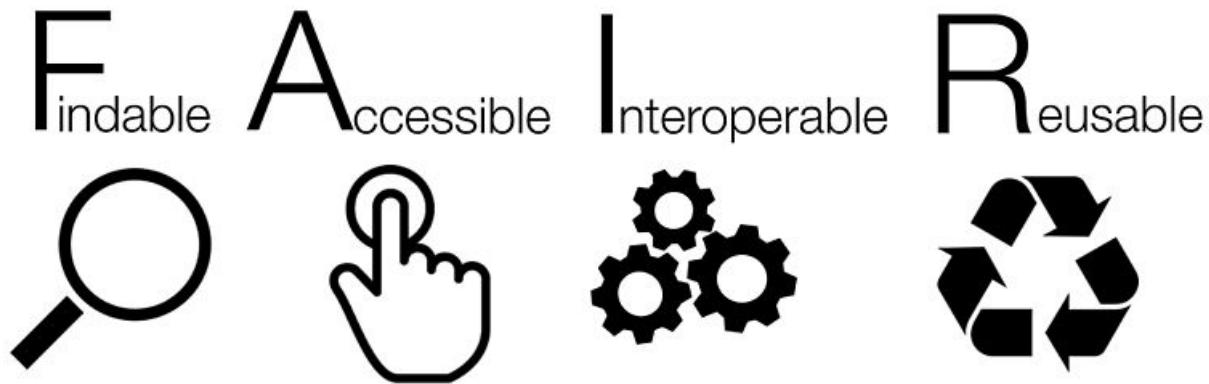
A Sample (1/3) from...

A Sample (2/3) from...

A Sample (3/3) from...

Social





Data and Repositories



@_depositar

謝謝! Thank You!

<https://data.depositar.io/>
<https://docs.depositar.io/>

data.contact@depositar.io

The *depositar* is a collaboration at the Institute of Information Science, the Research Center for Information Technology Innovation, and the Research Center for Humanities and Social Sciences (GIS Center) in Academia Sinica, Taiwan. The project has been supported, in part, by grants from Taiwan's Ministry of Science and Technology.

The *depositar* project team: T-R Chuang, M-S Ho, C-J Lee, Monica Y-C Mu & Ally C-H Wang.

「研究資料寄存所」是中央研究院資訊科學研究所、資訊科技創新研究中心、人文社會科學研究中心（地理資訊科學研究專題中心）的協作專案，部份經費來自台灣科技部的專題研究計畫。

研究資料寄存所計畫成員：莊庭瑞、何明誼、李承鑫、穆昱佳、王家薰。

