IMPROVING ARCHIVAL RECORDS OF TRADITIONAL KOREAN PERFORMING ARTS IN A SEMANTIC WEB ENVIRONMENT

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OVERVIEW

- Organizing the archival information of traditional Korean performing arts in a semantic web environment
- Analyzing the characteristics of Korean traditional music archives in the Gugak Archive of the National Gugak Center
- Recommending suggestions for improving the organization of the archival information in terms of stable identifiers, ontology-based data schema, and authority controlled data link

INTRO: NATIONAL GUGAK CENTER

- GUGAK: Traditional Korean music
- NATIONAL GUGAK CENTER (NGC): Established in 1951 for the preservation and distribution of traditional Korean performing arts



INTRO: GUGAK ARCHIVE

Gugak Archive: Traditional Music Archive of Korea

- NGC started its archiving project in 2007
- Began collecting and cataloging materials related to Korean classical performance
- Develop a metadata and classification scheme for traditional arts archive
- Analyzes, collects, provides, and preserves Korean musical performances, ranging from traditional music, dance, plays, and contemporary Korean music
- Produced and collected over 380,000 records, including videos, sounds, images, and textual materials

(Kweon 2016; NGC 2019)

ISSUE (1): RESOURCE IDENTIFICATION

 Sharing of Information on traditional Korean performing arts and related performing arts based on URLs

Websites of Gugak Archive

APIs of Cultural Data Plaza Meta Search Service: K-PAAN

- Create a link using a webpage URL, not permanent URIs
 - Difficult to clearly identify and link the performing arts record on the web
 - -In case of website renewal, the URL link could be broken
 - External connection via direct URL can be blocked and provide encrypted URIs (.do include)
 - Permanent URIs to identify and link archival information among various web services is needed

ISSUE (2): DATA SCHEMA BASED ON ONTOLOGY

 Own classification and metadata scheme of Gugak Archive (In-house schema)

"Traditional Arts Archive Classification Scheme"

- to categorize and organize archival records
- linked to the Korean Decimal Classification (KDC)

"Traditional Arts Archive Metadata"

 based on International Standard Archival Description (ISAD [G]) and Dublin Core Metadata

(Noh 2017)

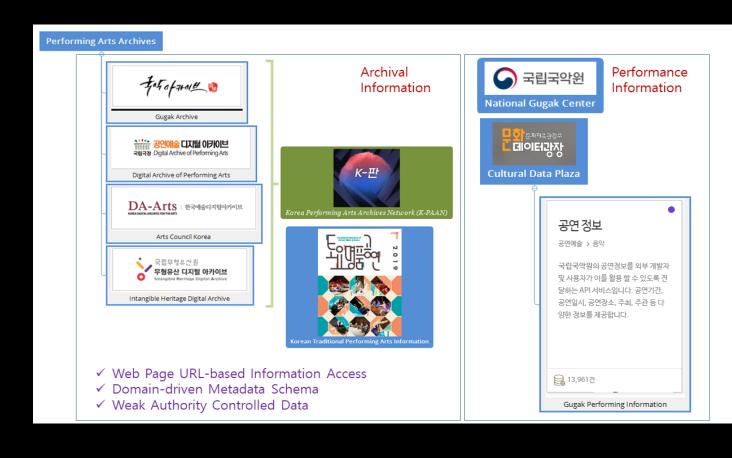
•ISAD (G) TO CIDOC CRM & FRBROO

- Descriptive Elements Matching to Upper Ontology
- ✓ Title → E19 Physical Object (P102 has title) E35 Title
 - (The name of an archival resource)
- √ Time → E19 Physical Object (P4 has time-span) E2 Time-Span
 - (The time when an archival resource is created)
- ✓ Place → E19 Physical Object (P55 has current location) E53 Place
 - (The name of a place where an archival resource is created)
- ✓ Type of Records → E19 Physical Object E55 Type {Fonds, Series, Files, Items}

 (The name of a type of material)

ISSUE (3): AUTHORITY-CONTROLLED INTERLINKING

Integrated Search
are implemented
based on 'keywords'
not controlled access
point (or identifier)



ISSUE (3): AUTHORITY-CONTROLLED INTERLINKING

- Link between resources with URIs, or those that interlink, increases data scalability and quality
- Vocabulary and meaning of Korean traditional music can be controlled using a Gugak dictionary and thesaurus
- At present, mainly uncontrolled keywords are listed in the archival description of the Gugak Archive
- ✓ Interlinking based on Authority-controlled identifier is essential

CONCLUSION

Suggestions for Improving Archival Information Service in a Semantic Web Environment

- ✓ Identify traditional Korean performing arts and related archival records with URIs permanently and consistently.
- ✓ Design data schema for archival records based on the formal ontological point of view for data linking and sharing among various institutions.
- ✓ Refine name and subject authority data to strengthen the linkages between archival data, as well as interlinking with external web data.

REFERENCES

- Bountouri, Lina & Gergatsoulis, Manolis. (2011). Mapping Encoded Archival Description to CIDOC CRM. Advances in Water Resources ADV WATER RESOUR. [English].
- Kweon, Hyekyung. 2016. Current status and future of Gugak archive for collecting and providing Gugak information resources: Proceedings of the Seminar on Gugak Archive: Role and Value Creation in the Digital Age, Performing Arts Archive [2016.11.08.], Seoul, Korea. [Korean].
- National Gugak Center. [2019]. "Introducing Gugak Archive". [accessed 2019.6.10].
 https://archive.gugak.go.kr/portal/main/introduction>. [Korean].
- Noh Yea-ri. (2017). The Preservation and Utilization of Korean Traditional Music Records Focusing on the records housed at Kugak Archive-. The Society for Korean HistoricoMusicology, 59(0), 43-82. [Korean].
- Park, Ziyoung. (2018). An Exploratory Study on Linking ISAD(G) and CIDOC CRM Using KARMA. Korean Society of Archives and Records Management, 18(2), 189-214. [Korean with an English Abstract].
- Wikipedia. (2019). "Music of Korea" [accessed 2019.6.8]. [English]. < https://en.wikipedia.org/wiki/Music_of_Korea>.

Performance Info

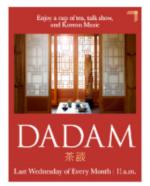
2019. 09 →



1	Choice
3	Performance Day

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 **25** 26 27 28 29 30

Search by Name



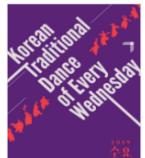
DADAM

 Dates 2019-09-25 ~ 2019-09-25

 Duration 11:00 ~ 12:30

Umyeon-dang Venues

Price A Seat 20000 won B Seat 10000 won Details



Korean Traditional Dance of Every Wednesday

 Dates 2019-09-25 ~ 2019-09-25

 Duration 20:00 ~ 21:30

Pungnyu Sarangbang Venues

A Seat 20000 won Price

Details

http://www.gugak.go.kr/site/program/performance/daily_list?menui 1&year=2019&month=9&date=25

GUGAK ARCHIVE

THANK YOU

@ParkZiyoung

Special thanks to Gugak Archive