Workshop Report

TEIN3 Application Workshop

"Cultural Heritage of Performing Arts over Future Internet"

20-21 October, 2010

Hosted by:

KAIST
Korea Advanced Institute of
Science and Technology

文化**CT**
Graduate School of
Culture Technology

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for Entertainment Engineering

Supported by:

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Report of TEIN3 Application Workshop:
Cultural Heritage of Performing Arts over Future Internet

SUMMARY

"TEIN3 Application Workshop: Cultural Heritage of Performing Arts over Future Internet" was held in Korea Advanced Institute of Science and Technology, Daejeon, Republic of Korea on 20th and 21th of October in 2010. As we can see in the title of the event, it mainly focused on the cultural application over broadband networks, cultural exchanges among countries, and technical issues on advanced networking. Every topic in it was deeply discussed in the speech sessions, and global cultural ring meeting. Welcoming performance didn't only show genuine Korean traditional music, but also networked performance linked to Spain, which was a typical instance of performing arts over future internet.

BACKGROUND

Nowadays, mutual exchange of global culture occurs frequently, in various ways. One of the most efficient and effective way to achieve sound collaboration is utilizing computer network. However, all tasks of collaboration cannot be done online, especially at the beginning stage of network collaboration, for example. Socializing party members or establishing community is essential part of the whole project. This consortium, which is interested in building cultural exchange linkage over the world, tries to hold workshop on cultural heritage over future internet. And the workshop will be the first step of that goal. Beginning with the workshop, this consortium will make consistent effort to expand creativity of performing arts and derive cultural commonality from diverse activity. This workshop will contribute to future internet by creating and operating new applications regarding human culture.

OBJECTIVES

- To establish a global collaborative structure for culture and arts interchange
- To perform collaborative arts based on future internet such as TEIN3 and its associated services
- To initiate progress of network technology and related service, based on real users requirements and necessities
- To demonstrate application based on high speed network and to contribute in the standardization of performing arts over internet
- To initiate a persistent international community, combining technicians and artists

- To bring closer traditional performing arts, as Flamenco and Pansori among others, to the Cultural heritage environment, and remark its importance in this field
- To enhance the traditional cultural content by sharing experiences between countries via new technologies and infrastructures as TEIN3, improving collaboration and understanding between them
- To establish a first approximation protocol (social and technical), about how to carry out this kind of distributed events
- To initiate a new research in user's perception in this new kind of performance over high speed and low latency networks

PROCEEDING

1. Speech Session

<u>Day 1 (October 20th)</u>

- Future Internet as a New Media Platform for Performing Arts
  (**Dae Young Kim** / Ph. D. / Vice Chair of APAN-KR / Chungnam University, Korea)
  - This session addressed case-based explanation of performing arts over networks by pinpointing future internet as an emerging type of media platform. It also covered existing obstacles of networked performance in a perspective of network technology.

- EU-Asia Cultural Heritage Portal (CHIP) of Performing Arts: The Need for a Sustainable Future
  (**Faridah Noor Mohd. Noor** / Ph. D. / Chair of APAN's e-Culture Working Group / University of Malaya, Malaysia)
  - Significant agenda and points to discuss on cyber performance were derived: archiving cyber performance, sharing the archive, and access to the archive.

- Keynote Speech: Why Future Internet needs e-Culture?
  (**Artur Serra I Hurtado** / Ph. D. / Deputy Director / i2CAT Foundation, Spain)
  - As the keynote speech of the workshop, this session specified the concept of future internet and demonstrated the need of cultural application over future internet. It also introduced many attempts made to establish global cultural ring.

- Introduction to Korean Music
  (**Younga Jaegal** / Paichai University, Korea)
  - This session was about some part of Korean traditional music. It was introduction of Pansori, Daegeum Sanjo, and Gayageum Sanjo. Collaborative networked performance between Korea and Spain, was finally followed.

Figure 1. Day 1 – Dae Young Kim

Figure 2. Day 1 – Faridah Noor Mohd. Noor

Figure 3. Day 1 – Artur Serra

Figure 4. Day 1 – Younga Jaegal

Day 2 (October 21th)

- Networked Performing Arts. Past, Present, and Future
  (**Fco. Javier Iglesias Gracia** / i2CAT Foundation, Spain)
  - This session demonstrated the significance of e-Culture application in viewpoints of technicians and artists. Then, it provided instances of existing case that represent e-Culture over internet.

- Traditional Technology and Customs behind the Process of Making Drums as a Cultural Heritage in Sri Lanka
  (**Manoj Sumedha Bandara Alawathukotuwa** / University of Peradeniya, Sri Lanka)
  - This session introduced distinct cultural heritage of Sri Lanka.

- Influence of Culture on the Most Influential Films of Last Decade
  (**Umer Hameed** / G C University Faisalabad, Pakistan)
  - This session gave conceptual and philosophical understandings of influential films, as a cultural product of modern society.

- Grid and High Performance Computing for Digital Culture and Heritage
  (**Suhaimi Napis** / Ph. D. / University of Purta Malaysia, Malaysia)
  - This session demonstrated the importance of digitalizing of cultural heritage. It suggested grid computing or high performance computing as a plausible method to achieve well-digitalized cultural heritage.

- Multi-Party Visual Sharing with Networked Tiled Display
  (**Jongwon Kim** / Ph. D. / Gwangju Institute of Science and Technology, Korea)

- This session covered technical issue about visualization of networked application. Development, UI, and management issues on tiled display were introduced.

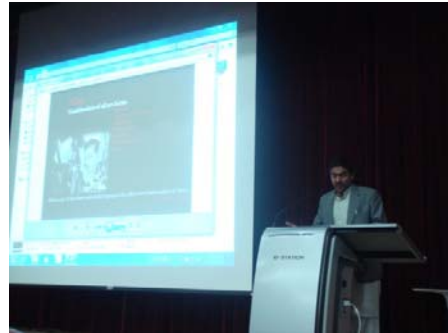**Figure 5. Day 2 – Manoj Alawathukotuwa**

Figure 6. Day 2 – Umer Hameed
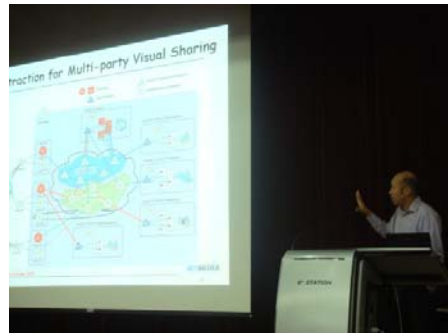

Figure 7. Day 2 – Suhaimi Napis

Figure 8. Day 2 – Jongwon Kim

2. Demonstration of Networked Performance (Welcoming Performance)

- Daegeum Sanjo
  (**Dongsu Lee** / Daejeon Yeonjeong Municipal Korean Music Institute)

- Gayageum Sanjo
  (**Jeongsu Park, Hyungjun Kim** / Daejeon Yeonjeong Municipal Korean Music Institute)

- Pansori & Flamenco Collaborative Performance over Networks
  (**Misook Kim, Kiseok Nam** / Daejeon Yeonjeong Municipal Korean Music Institute)
  (**Santi Sanchez, Sergio Ramos** / i2CAT Foundation)

Figure 9. Daegeum Sanjo

Figure 10. Gayageum Sanjo

Figure 11. Pansori & Flamenco Collaborative Performance 1

Figure 12. Pansori & Flamenco Collaborative Performance 2

3. Global Cultural Ring Meeting

- Opening Remarks
  - Local or International Cultural Ring
  - Each participating institution/nation makes it local while linked through the Cultural Ring to make it international
- Model for Asian Cultural Ring
  - TEIN 3 – Connecting Europe and Asia/other regions (Ready for China, India, Indonesia, Japan, Korea, Laos, Malaysia, Nepal, Pakistan, the Philippines, Singapore, Sri Lanka, Taiwan, Thailand, Vietnam and Australia.
  - Check GEANT3 and ALICE
  - Sri Lanka and Pakistan reps will check their local connectivity
  - Cultural institutions to develop courses. e.g. in Catalonia.i2CAT, Universities and Cultural Institutions work together
  - Courses/Master Class for arts, culture and heritage organizations such as opera houses, cultural bodies/NGOs, etc.

- Conference open to students, then expand to cultural centers, then public
- Frequency of courses
- Every nation to offer, for e.g., 2 events per year
- Tasks to be carried out by:
    Culture Programmers – to discuss, coordinate and organise events at international level
    Technical team – network, connections, etc
- Have a webcast channel similar to Research Channel, i.e, a web-tv portal to collect all culture activities to be sent to all
- This would be of more interest for the academic institutions to get involved

- Initiating the Asian Cultural Ring in first semester 2011
- It was agreed that a brief write-up from Artur will be good for all to read as well as for the next move to start the initiative

- Pro-tem Committee
- The following were named:
1. Asia CR – DY KIM (Head)
2. EU CR – Artur Serra (Head)
3. Secretary   (1) SG Kim (2) Faridah Noor
4. Technical Committee – Francisco Iglesias, Goo, Suhaimi Napis
5. Committee members
    Manoj Alawathukotuwa (Sri Lanka)
    Umar Hameed (Pakistan)
    Jegal Younga (Korea)
    Joonhyun Lee (Korea)
    Seongtaek Lim (Korea)

- Activities
- Testbest to be ready by November test network
- It was agreed that programme of activities be ready by Dec 2010
- Programme to start 15 Jan.
    Nations – Malaysia, Pakistan Sri Lanka, Spain
    Korea – March 2011
- Upcoming Conferences:
    Oct 29 DG e-Infrastructure for Cultural Heritage (Brussels)
    Internet 2-TERENA Workshop on Performing Arts – 22 November 2011 (Paris)
    Global Cultural Ring Joint Workshop in June 2011 (Barcelona)

- Other matters
- Both content developers and technical team need to work together
- Need to get young people to get involved and to attract them, need attractive programs , for e.g., ASEAN Youth e-Culture Workshops conducted in Brunei participated by Philippines, Malaysia, Singapore, Thailand, Cambodia, Vietnam, Brunei, Indonesia, Laos.
- Hopefully cause a ripple effect to attract more students
- Important to think on how to get Ministries to support CR?
- Both Cultural and Technical institutions need to get involved. Perhaps, engage prestigious institutions to hold hands with us to go to Ministry to support CR effort

Figure 13. Global Cultural Ring Meeting

CONCLUSION

The speech session had almost full spectrum of cultural heritage over future internet. Regarding technical issues, applications, distinct cultures of other countries, future vision and significance of e-culture were all addressed. They inspired the audience by giving them their knowledge and experience in their working field.

The demonstration of networked performance, presented on Day 1, directly suggested the possibility of cultural application over future internet by establishing strong bond among artists, engineers, scholars, and even public. The networked performance took place after two local performances of Korean traditional music. Pansori singer sang and Flamenco players played rhythm, and they made up great harmony through gigabit internet. In addition, locally recorded video of Pansori singer was being sent to Spain, and then Spanish engineers sent back the compound video, made by blue screen method, which had Pansori singer and Flamenco players in it (Figure 12). It received standing ovation from the audience.

Global Cultural Ring Meeting achieved the several desired outcomes. First, participants shared the primary concept of Asian Cultural Ring model. Based on this conceptualizing phase, second, all of them agreed on initiating actual task in 2011 and members list is also confirmed. This is an important result that carries weight with our future activities. Third, information on upcoming events that has significance to the members were shared. Those events will give some opportunity for us to join in. Besides these, other matters which are related to cultural application, education, and network technology were discussed.

"TEIN3 Application Workshop: Cultural Heritage of Performig Arts over Future Internet" was successful in concretizing the relationships among the participants and giving a good chance to express and share their knowledge and experience. The effect of this event will continuously propagate to the participants' colleagues, their institutes, and their countries.

Figure 14. Workshop Participants – Speakers, committee members, performers, and some of the audience

ACKNOWLEDGEMENTS

The workshop committee members and the participants wish to thank to members of TEIN3 for their support. Without the financial and institutional support from the organization, this event would have been far less successful, and we are grateful to them for giving us this meaningful opportunity of global collaboration.