

Overview of the Digital Silk Road Project

-Data can Tell the History of Silk Road -

DSR International Symposium 2013

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The "Digital Silk Road" Project

- NII started the Digital Silk Roads (Shortly DSR) project in 2001 in cooperation with UNESCO
- The "Digital Silk Road" Project extends the UNESCO's 10-year initiative in 1990's "Silk Road" Project
- The project aims to create a digital archive of rare books and cultural heritage in the Silk Road region, and establish a new style of Silk Road study in the 21st century
- The project intends to create the new "Silk Road" on Internet, using the advanced digital technology

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DIGITIZATION AND UTILIZATION OF TOYO BUNKO RARE BOOKS

- The digital archive is a collaborative project with Toyo Bunko(The Oriental Library)
- 203volumes (76 authors) from cover to cover (total 59,358 pages)
- Features
 - The collection of academically essential resources
 - Rich choices of navigation methods including a full text search
 - Multipurpose utilization of digitized resources

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Utilization of digital contents

- **Read Narratives**
 - Silk Road in Rare Books
 - Discovery of Civilizations of Central Asia
- **See Maps**
 - Silk Road Maps
 - Digital Maps of Old Beijing
- **Search Databases**
 - Database of Buddhist Cave Temples in China
 - Stein Placename Database
 - Commentary on Pelliot Catalogue for Dunhuang
- **Enjoy Images**
 - Senga Silk Road
 - Photographs of Past and Present
 - Digital Silk Road Kids

Digital Archive of Toyo Bunko Rare Books



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Silk Road Narratives



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Historical Silk Road Map Collection



Silk Road Maps



- Stein's maps are georeferenced to be used on Google Earth and Maps
- Beijing maps are georeferenced and corrected, and gazetteers are also available

Photographs of the Past and Present



DSR Imaginary Museum

- This portal provides the virtual <MUSEUM> and <LIBRARY> for the Digital Silk Roads, <CINEMA> moving video of Bamiyan heritage, <PANORAMA View> of Bamiyan Landscape, <Silk Road TOUR> representing major Silk Road Route and <CHRONOLOGICAL MAP> for submitting and sharing Silk Road contents

DSR Imaginary Museum



3D Reconstruction and Virtual Reality of the Citadel of Bam

- The Citadel of Bam was destroyed by an earthquake in 2003
- The site is registered in the list of the world heritage in danger of UNESCO in 2004
- 3D-VR is used for future physical reconstruction and memory of the Bam


Citadel of Bam




- One of the biggest mud brick complex in the world
- Most of the citadel was collapsed by the earthquake
- “Bam and its Cultural Landscape” is now UNESCO’s World Heritage in Danger

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3D Modeling and Rendering



CAD-based 3D drawing:
3D modelers:

3D modeling using 3d-max: one part of Bazaar

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Past Conference and Training

- International Symposium
(DSR Tokyo 2001, DSR Nara 2003)
- DSR Workshop
(Beijing University, Tsinghua Univ., British Library IDP, Univ. of Tehran)
- DSR Training
(JASS'04:JSPS ASIAN SCIENCE SEMINAR in Tokyo, UNESCO Digital Archive Seminar at Baku, Azerbaijan)

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Thank you very much!