Web Technology Group

Project Leader

Kōichi Hosoi

(Professor, Graduate School of Policy Science, Ritsumeikan University)

Transmission of Research Data Using 3D Metaverse, and an Empirical Research on Building a Research and Educational Environment



1) Examine the Current Status of the Virtual World and the Metaverse Technology

Metaverse, a technology represented by Second Life, provides a comprehensive test site of future information technology. This project examines whether the Metaverse technology provides an effective environment for research projects such as those at the Digital Humanities Center for Japanese Arts and Cultures, particularly in its ability to make the research subjects visible through 3D technology, and to test the possibilities of the research subjects as interactive and high-level tactile media. More specifically, the research comprehensibly investigates various 3D Metaverse technologies in the world, such as Second Jife Pu Linden Lah

(2) Use of Second Life in Transmitting Research Results and Providing Research and Educational Environment

Second Life is representative of the 3D Metaverse technology. This project examines the effectiveness of Second Life as a medium for transmitting our Center's research results, and for testing the possibilities of virtual environments for research and education. We construct SIM for empirical tests.

Identify the patterns of contents of our research practice and results. Sort out the information and explore how it can effectively be made the contents of the 3D Metaverse and its data transmission designs.

Apply typical research results to Second Life, and analyze the effectiveness and problems on sending and receiving sides in terms of low base and participant-changements become

- sending and receiving sides in terms of log base and participant-observation base

Research Topics

Survey Research on Current Status of the Virtual World and Metaverse Technology

- Research on Metaverse in the World
 Crockett (University of Minnesota)
 Internet Adventure iA (SEGA)
 Multi-Player Online Game (MMORPG)
 Research on the Principles of Avatar-Based Communications
- 3) Examination and Evaluation of Social Applications

Use of Second Life in Transmitting Research Results and Providing Research and Educational Environment

- 1) Reproduction of the internal world of the Noh stage,
- and production of Noh costumes for avatar

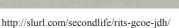
 2) Development of a Noh dancing-board using motion-
- capture data
 3) Effectiveness and issues of Metaverse as a space for exhibiting academic contributions, and behavior of the





Noh Stage Area











Archival Center (Exhibition Room)



http://slurl.com/secondlife/rits-gcoe-jdh/







Research Project Staff

[Ritsumeikan Research Collaborators]

[Visiting Researcher] [Visiting Researcher Overseas] [Research Assistant]

Akinori Nakamura and Kazufumi Fukuda Toru Fujimoto Prevost Laurent (Swiss) Keisuke Asada (Ph.D. candidate)



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