

Historical GIS Research Group

Project Leader

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Virtual Kyoto Project

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Virtual Kyoto Project **2007-2011**



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Historical GIS Research Group
People **2009**

- Members**
 - Keiji Yano
 - Tomoki Nakaya
 - Tatsunori Kawasumi
 - Akihiro Kinda
 - Satoshi Tanaka
- PD (GCOE)**
 - Ayako Katsumura
- PD (Ritsumeikan)**
 - Kazumasa Hanaoka
- PD (JSPS)**
 - Akihiro Tsukamoto
- RA2**
 - Akio Kondo (D4)
 - Taiko Todokoro (D4)
 - Kenichi Honda (D1)
- RA3 (JSPS)**
 - Takashi Kirimura (D2)
- COE Visiting Professor**
 - Yutaka Takase
- Faculty of Geography Department**
- Researchers**
 - Takafusa Izuka
 - Yuzuru Isoda
 - Manabu Inoue
 - Keigo Matsuoka
 - Dai Kawahara
 - Hiroyuki Tamada
- Researchers(abroad)**
 - Margaux Delayre (France)
 - Shinya Yasumoto (UK)
- Collaborative Faculty**
 - Toshikazu Seto
 - Norifumi Kawahara

Objectives

Virtual Kyoto is a virtual time-space created on a computer for the purpose of investigating the past, present and future of the historical city of Kyoto. Using the cutting-edge technologies in GIS and VR, we built Virtual Kyoto which is 4D-GIS that comprise a series of 3D-GIS at different points in time.

The web-based system provides user-friendly interface to explore historical materials of cultures and arts in the geographical context of Kyoto with its historical landscapes. Virtual Kyoto should play a valuable role in the assistance for urban landscape planning of Kyoto as well as sending rich information about Kyoto to the world through the internet.

Our 3D city modeling begins with the present Kyoto and then goes back to the past, including those soon after and before the World War II, the Taisho and Meiji eras, pre-modern Edo era and finally back to Heian era when the city of Kyoto was founded in the late 8th century.

Virtual Kyoto is an infrastructure to place various digitally archived materials associated with the city, and to disseminate Kyoto's subtle and sophisticated forms of cultures and arts to the world over the internet.

Research Topics (2002~)



Current Research Topics (2007~)

- Improvements of Contents in Virtual Kyoto**
 - 1) Kyo-machiya GIS
 - 2) Modern architecture GIS
 - 3) Roadside temples (Jizo) GIS
 - 4) Place dictionary of Kyoto
 - 5) Restoration of Shinmachi St.
 - 6) Virtual Nagaoka-kyo
- Virtual Kyoto on Web**
 - 1) Virtual Kyoto on mobile
 - 2) GIS 2.0 using Virtual Kyoto
 - 3) Digital museum of Kyoto
- Utilization of Virtual Kyoto**
 - 1) Urban landscape simulation of Shinmachi St.
 - 2) Utilization of the New regulation for protecting landscape

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On-Book
Virtual Kyoto

Yano, K., Nakayama, T., and Isoda, Y., eds. (2007)
Virtual Kyoto: Exploring the Past, Present and Future of Kyoto. Nakanishya, Shinga

On Web
Virtual Kyoto 3D Map

<http://www.geo.it.ritsumei.ac.jp/webgis/ritsumei.html>