

2006 FARGO

CAA



Computer Applications and Quantitative Methods in Archaeology

Digital Discovery

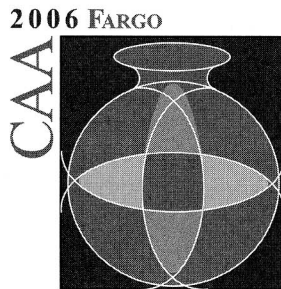
Exploring New Frontiers in Human Heritage

Program and Abstracts

CAA2006: April 18-23, 2006 Fargo, ND - USA

Digital Discovery

Exploring New Frontiers in Human Heritage



Book of
Abstracts and Program

Computer Applications and Quantitative Methods in Archaeology
CAA2006 Fargo: April 18-23 • Fargo, ND USA

CAA2006 Conference Program

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Short Paper: *Semantic P2P Network for Virtual Reality Archeological Resources*

Keywords: 3D models, semantic web services, P2P sharing networks, self-sustaining business model, virtual museums, digital libraries, heritage community

This paper presents an innovative concept of an Internet-based system that will enable various categories of users – both individuals and organizations – to share heritage resources in the form of 3D models of archeological artifacts accompanied by images, movies, catalogues, and archives. Semantic web services enable easy categorization and retrieval of available digital heritage resources. User-friendly, on-line tools simplify widespread citizen access. Based on a service-oriented infrastructure, the system will function similarly to the music and movies P2P sharing networks, but, unlike them, it will be based on a legal and self-sustaining business model. It will offer users a possibility to present their own archeological and historical collections, scientific documentation of field research, etc., as well as to create thematic presentations: academic, popular, educational, etc. The resources collected and maintained by the users in the form of digital libraries will be consequently aggregated into virtual museums. The system enables dispersing the costs of data preparation and maintaining over the whole “heritage community” of its users. It broadens the scope of managers of digital collections far beyond the museums and other cultural institutions, allowing the citizens to build their own community digital libraries. Ideally, the community can grow almost without limit, as its new members bring both demand and supply.