

ECDL 2009

13th european conference on digital libraries

EIAH

Introducing

Data Model

the Building Blocks of the Information Architecture

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HISTORY

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EIAH Team

- Introduction to EIAH
- Goals and objectives
- EIAH Cake
- Entry and Document
- EIAH Information Architecture Objectives
- EIAH Information Architecture Standards and Policies
- Information Pool
- Dspace
- Aratta
- Ontology
- EIAH Ontology
- The Mediator Level
- Controlled Vocabulary
- Metadata Model
- Semantic Portal
- Distributed Repositories
- OAI-PMH
- The Current Implementation
- Future Works
- Q&A

Introduction to EIAH

● EIAH

- Founded at 2007
- Nonprofit Organization
- Head director of the project: Mohammad Beheshti the Former head of Iranian Cultural Heritage Organization



● Partners

- National Library & Archive of Iran
- Polytechnic University of Iran
- Shahid Beheshti University of Iran

Goals and objectives

● EIAH Goals

- Increasing the quantity and improve the quality of information on Iranian culture
- Facilitating the recovery of vernacular identity
- Presenting the joint heritage of the countries in the region for further interaction and focusing on cultural unity



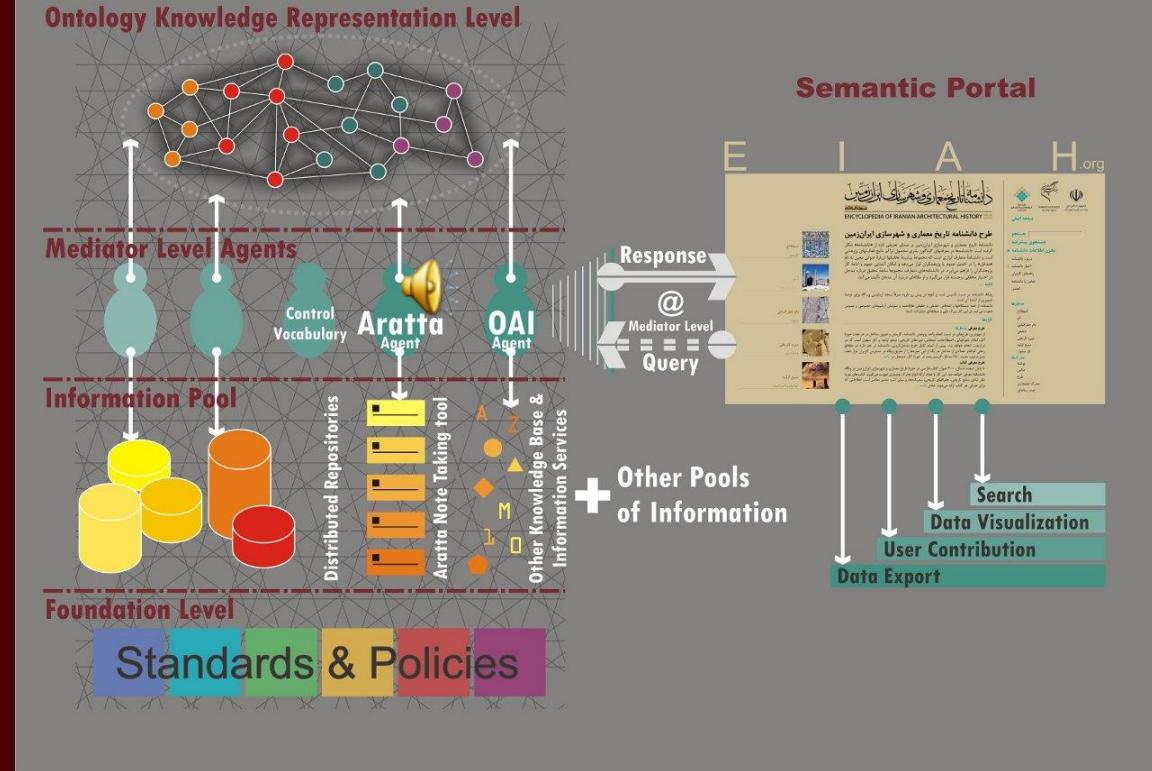
● Objectives

- Providing varied types of resources
- Providing eligible and accurate resources
- Providing accessible resources



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EIAH Cake





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Entry and Document

● Two Core Concepts in EIAH Information Architecture

● Entry

- Every topic or concept in domain which information accumulates around it (Terms, Monuments,...)

● Document



- Any kind of resource which provides information regarding history of Iranian architecture (Text, Photo,...)



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EIAH Information Architecture Objectives

● Three Main Objectives

- Facilitate the access to the resources and documents
- The ability to represent conceptual relations between topics of Iranian architecture
- The ability to establish relations between topics and their related resources





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EIAH Information Architecture

● Three-layer architecture

- Information pool
- Ontology – knowledge representation level
- The mediator level



● Foundation layer

- Standards and policies



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Standards and Policies

● A Foundation Layer

- open and international standards and guidelines
- homogenized and optimized products
- Governing on all work-flows and procedures



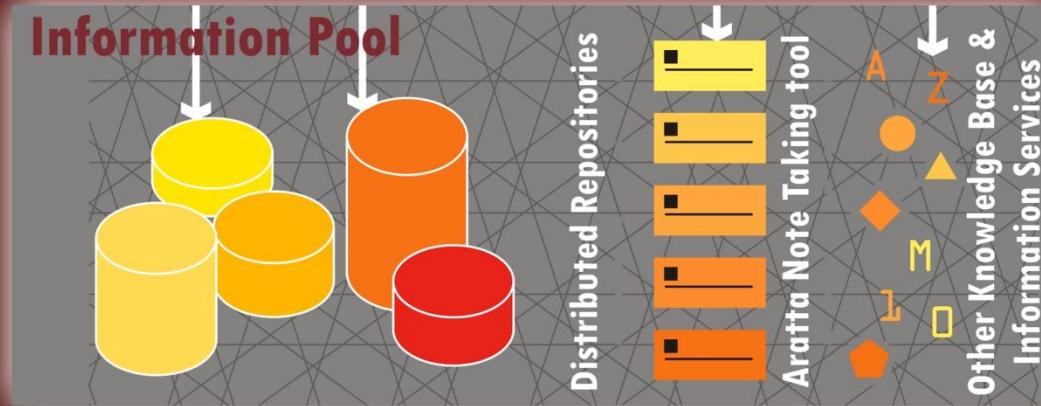
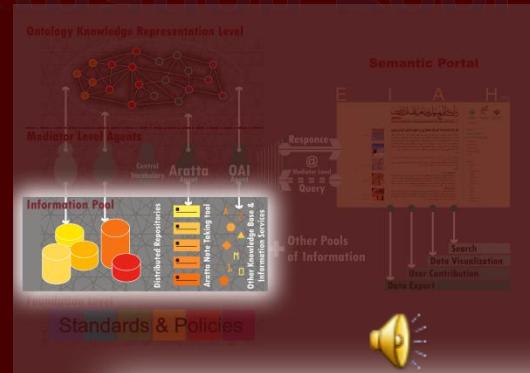
Standards and Policies

- Software Standard Policies
- Hardware and Network Standard Policies
- Technical Tracking Standard Policies
- Information Storage and Exchange Standard Policies
- Content Legal and licensing Standard Policies
- Security Standard Policies
- Resource Description and metadata Standard Policies



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Information Pool





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Information Pool

- A network of digital repositories, containing various types of resources related to Iranian architecture
- To establish a grid of digital repositories, a powerful Open source solution was necessary.

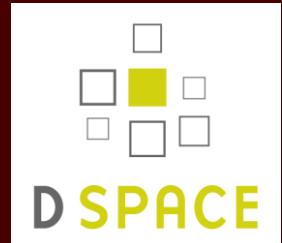


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DSpace

DSpace institutional repository platform was chosen after evaluating and reviewing twenty other solutions.

- Open Source Software
- The community around DSpace
- Using crosswalk plug-ins
- Can customize UI for end user
- Uses Java, JSP, servlet JSTL
- Uses Oracle and Postgresql
- Uses Apache Lucene





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Dspace @ EIAH

- EIAH customized and localized DSpace for the institution's needs. These modifications include:
- Persian user interface;
- Persian Calendar; 
- Right to left text rendering;
- Enhancement of its search engine, Apache Lucene for Persian texts.



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Persian localization issues

- Right to left writing system (like Arabic and Hebrew)

دانش اندرون دل چراغ روشن است.



Text flows from right to left



- Bi-directional text

عماد در درس خواهد خواند.



Subtext flows from left to right



Text flows from right to left





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Persian localization issues

- Different characters for numbers

۱	۲	۳	۴	۵	۶	۷	۸	۹	۰
۱	۲	۳	۴	۵	۶	۷	۸	۹	.



- Different punctuation

\$,	;	" "	/	?
﷼	,	؛	« »	/	؟

- Non-joiners

کتابخانه کتابخانه

U+0020 SPACE U+200C ZWNJ

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Persian calendar

- Iranian calendar based on Jalali calendar
- 33-year algorithm
- Standard time and date representation



مفصل	عادي	کوتاه	با صفر اضافی	کوتاه
۱۳۵۸/۰۴/۶۷	۷۳۰:۴۰:۶۷	۷۳۰	۰۷:۳۰	۰۷:۳۰
۱۳۸۵/۱۲/۰۱	۱۶:۰۰:۰۰	۱۶:۰۰	۱۶:۰۰:۰۰	۱۶:۰۰
۱۳۰۴/۰۵/۰۶	۱۱:۱۰:۱۵	۱۱:۱۰	۰۱:۱۰:۱۵	۰۱:۱۰
۱۴۰۴/۰۵/۰۶	۲۴:۰۹:۵۹	۲۴:۰۹	۲۴:۰۹:۵۹	۲۴:۰۹

مفصل	کوتاه	با فاصله اضافی	خیلی کوتاه	کوتاه	با صفر اضافی	خیلی کوتاه
۱۳۵۸/۱/۱۲	۱۳۵۸/ ۱/۱۲	۱۳۵۸/ ۱/۱۲	۱۳۵۸/۱/۱۲	۱۳۵۸/۱/۱۲	۰۵/۰۱/۱۲	۰۵/۰۱/۱۲
۱۳۸۵/۱۲/۱	۱۳۸۵/۱۲/ ۱	۱۳۸۵/۱۲/ ۱	۱۳۸۵/۱۲/ ۱	۱۳۸۵/۱۲/ ۱	۸۵/۱۲/۰۱	۸۵/۱۲/۰۱
۱۳۰۴/۵/۶	۱۳۰۴/۵/ ۶	۱۳۰۴/ ۵/ ۶	۱۳۰۴/ ۵/ ۶	۱۳۰۴/ ۵/ ۶	۰۴/۰۵/۰۶	۰۴/۰۵/۰۶
۱۴۰۴/۵/۶	۱۴۰۴/۵/ ۶	۱۴۰۴/ ۵/ ۶	۱۴۰۴/ ۵/ ۶	۱۴۰۴/ ۵/ ۶	۰۵/۰۵/۰۶	۰۵/۰۵/۰۶



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Persian search issues

• Some Arabic characters

Arabic characters	Persian characters
فيزيك	فیزیک
معماري	معماری
مقبرة شيخ	مقبرة شیخ

Arabic letter Yeh ي

Arabic letter Kaf ك

Arabic letter Teh Marbuta ة

• Joiners and non-joiners

كتاب خانه کتابخانه

U+0020 SPACE

U+200C ZWNJ

• diacritics

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



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Lucene search engine (developed)

● Persian language approximate search

Diacritics

آل مُهَلْبٌ / آل مهلب / آل مهلب / آل مهلب



Non-joiners

بى بى خاتون / بى بى خاتون / بى بى خاتون

Arabic characters

فیزیک / فیزیک

Wild cards

*مسجد جامع



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Aratta (<http://eiah.org/aratta>)

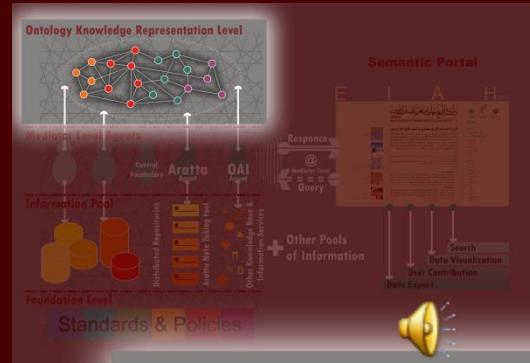
- A collaborative research tool (semantic note taking tool)
- developed as a web-based research tool
- Semantic relations between notes
- Reference management services
- Deploys the conceptual model of the EIAH and defines its relational tags based on this model



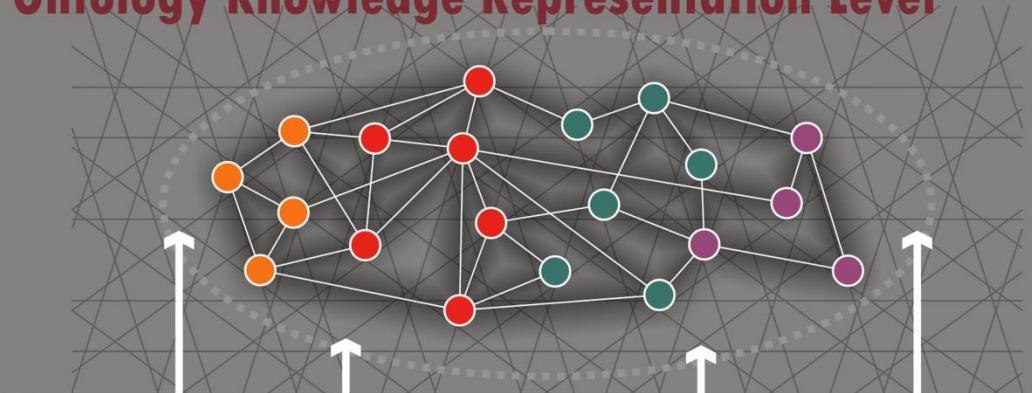


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Ontology



Ontology Knowledge Representation Level





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Ontology

- A specification of a conceptualization and a formal representation of a set of concepts within a domain and the relationships between those concepts (Tom Gruber, 1992).
- In the domain of Iranian architecture , the ontology gives us an overall picture of Iranian history of architecture with all its concepts and all their relations.



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EIAH Ontology

- Our viewpoint for the history of Iranian architecture can not be pictured with a single regular ontology.
- There are three major views in EIAH ontology:
 - Context (environment) 
 - Structure and form (physical properties)
 - Life and human behavior
- This is not practiced before in this field
- So we almost started from scratch
- And it is under development and in progress.



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EIAH Ontology (Architectures' view)

- **Architecture is far beyond of construction, material, sketches and plans;**
 - People's life is a great factor
 - The environment and condition are effective
 - And architecture is what we see as the output

Four main causes of change in nature

- The Material cause
- The Formal cause
- The Efficient cause
- The Final cause

Ancient classic element systems

- Earth
- Water
- Air
- Fire



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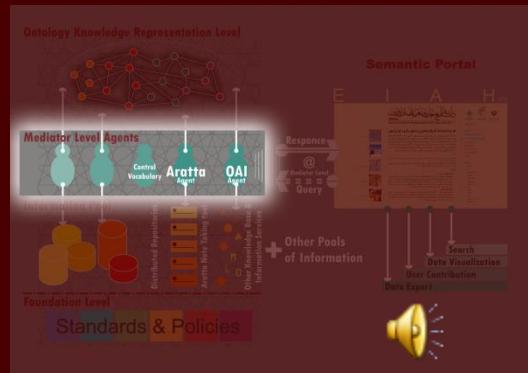
EIAH Ontology (development process)

- Theoretical foundations of our ontology
- Bibliography of architecture resources
- Designing the ontology using a chosen methodology
 - Defining concepts and constraints
 - Conceptualization
 - Formalization
 - ...





The Mediator Level





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The Mediator Level

- Detects relations between two layers (ontology and repository)
- Collects and links resources to concepts (entries)
- Integrates data from other services (e.g. Aratta)
- Applies controlled vocabulary to improve search quality





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The Mediator Level (current implementation)

• Note retrieval tool

- Uses human annotation in notes and relates them to entries
- Stores notes metadata (annotations) in a relational database

• Document retrieval tool

- Uses OAI-PMH for harvesting metadata from repository
- Stores harvested metadata in a relational database





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Controlled Vocabulary

- Required for accurate search results (recall and precession)
- Needed for efficient resource description
- Expansion of users by multilingual controlled vocabularies.
- Promoting a broader global overview respecting translation /Culture
- Three main fields are in our focus: architectural terms, geographical names and united list of people name





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Controlled Vocabulary

- Currently in Persian (planned to be bilingual)
- Extracted from accredited resources for Iranian architecture
- Approved by team of experts in the field of architecture
- Is implemented in Dspace and Lucene search engine is using it for better results





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Metadata Model

- Customized and based on the Dublin Core (simple & qualified)
- Uses relational elements as refinements of subject
- Compliance with EIAH ontology
- Enables semantic interoperability among different services



Term Name: Is related to Geographical Name		Term Name: Is related to Historical Period	
URI	Http://eiah.org/en/Entries#Geographical_Name	URI	Http://eiah.org/en/Entries#Historical_Period
Label:	Is related to Geographical Name	Label:	Is related to Historical
Definition:	An entity responsible for correlating a geographical name to the resource	Definition:	An entity responsible for correlating a historical period to the resource
Types of term:	Property	Types of term:	Property
Refines:	http://purl.org/dc/elements/1.1/subject	Refines:	http://purl.org/dc/elements/1.1/subject



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Semantic Portal

دانشنامه تاریخ معماری و شهرسازی ایران‌زمین

نشسته آنلاین

encyclopediaofiranianarchitecturalhistory.org

صفحه اصلی > جستجوی پیشرفته

جستجو در بین مدخل‌های دانشنامه با کتابخانه پیش‌نهاد

جستجو در بین مدخل‌های دانشنامه
 جستجو در میان کتابخانه پیش‌نهاد

جستجو

اثر منقول

منبع اولیه

دوره تاریخی

شخص

نام چهره‌ای

اثر

اصطلاح

جستجو در بین مدخل‌های دانشنامه

صندوقچه میراث امیرکبود زد

مطلع انسان

ال بوده

قوام‌الدین شریازی

شهید

مسجد جامع اصفهان

نتیجه پژوهشی

جستجو در بین مدرک‌ها

پایگاه‌های داده

مخزن دانشنامه

مرکز استاد دانشگاه معماری و شهرسازی شهید بهشتی

پایگاه میمند

پایگاه بهید

پایگاه چهارزیبل

پایگاه پارسه و پاسارگاد

پایگاه به

آرشیو شخصی آقای عین الدین فرهنگی

جستجو

نوشته

عکس

طرح

چند رسانه‌ای

پدیدآور موضوع عنوان

و

نه

دانشنامه
ایرانی
معماری و شهرسازی
برگزاری از
میراث ملی و هنری

صفحه اصلی

جستجوی پیشرفته

مخزن اطلاعات دانشنامه

مدیریه دانشنامه

اخبار دانشنامه

راهنمای کاربران

تماس با دانشنامه

انجمن

مدخل‌ها

اصطلاح

آخر

نام چهره‌ای

شخص

دوره تاریخی

منبع اولیه

اثر منقول

مدرس

کارشناسی کاری

مدرک‌ها

نوشته

عکس

طرح

مدرک شناسیاری

چند رسانه‌ای

انجمن

همکاران

دانشجویان

English

فارسی

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- Goals and objectives
- EIAH Cake
- Entry and Document
- EIAH Information Architecture Objectives
- EIAH Information Architecture Standards and Policies
- Information Pool
- Dspace
- Aratta
- Ontology
- EIAH Ontology
- The Mediator Level
- Controlled Vocabulary
- Metadata Model
- Semantic Portal
- **Distributed Repositories**
- OAI-PMH
- The Current Implementation
- Future Works
- Q&A

Distributed Repositories

- Widespread cultural heritage centers
- Huge amount of resources
- Promoting digital preservation





OAI-PMH

- Open Protocol for Metadata Harvesting
- HTTP and XML
- Built-in for DSpace
- Dublin Core friendly



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Current Implementation

- Repository Level: DSpace
- EIAH Metadata and Application Profile
- Ontology Level: Semantic Mediawiki tools
- Mediator Level: Semantic Mediawiki extensions





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Future Works

- Launch of more digital repositories in other cultural heritage centers;
- Development of EIAH ontology;
- Development of EIAH controlled vocabulary;
- Implementing of DSpace XML UI framework (Manakin) to increase adaptability;
- Enhancement of EIAH application profile based on DCAP Singapore framework;
- Development of more data visualization tools.



ENCYCLOPAEDIA OF
IRANIAN
ARCHITECTURAL
HISTORY

The End

Thank you!

EIAH Team



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