**8th ICAEA**

**Iranian Conference on Advances In Enterprise Architecture**

23-24 Oct 2024

تحول افق های آینده معماری سازمانی با نگرش هوش مصنوعی و علم داده

دانشگاه تربیت مدرّس

هشتمین کنفرانس پیشرفت‌های معمـــاری ســازمانی ایــران

۲ و ۳ آبان ماه ۱۴۰۳

## Conference Chair and Secretaries:

- **Conference Chair:** Dr. Mohammad Mahdi Sepehri
- **Scientific Secretary:** Dr. Mehrdad Kargari
- **Executive Secretary:** Dr. Toktam Khatibi

## Scientific Track Coordinators:

- Dr. Montazer, Dr. Kamandi (Governance, E-Government, and Digital Economy)
- Dr. Chaharsoughi, Dr. Khayami (Business Architecture)
- Dr. Saniei Abadeh, Dr. Dary (Infrastructure and Security Architecture)
- Dr. Nazemi, Dr. Aghdasi (Enterprise Architecture and Business Process Management (BPM))
- Dr. Farahani, Dr. Yari (Digital and Emerging Technologies)
- Dr. Teimourpour, Dr. Akhoundzadeh (Smart Services Architecture)
- Dr. Shams, Dr. Albadavi (Management and Leadership in Enterprise Architecture)
- (Challenges and Solutions in Enterprise Architecture)

## Main Topics of the Conference:

- Governance, E-Government, and Digital Economy
- Business Architecture
- Infrastructure and Security Architecture
- Enterprise Architecture and Business Process Management (BPM)
- Digital and Emerging Technologies
- Smart Services Architecture
- Management and Leadership in Enterprise Architecture
- Challenges and Solutions in Enterprise Architecture

## With an emphasis on practical applications (vertical topics):

- Smart City and Smart Citizen Services
- Financial Markets, Stock Exchange, Cryptocurrency, Banking, and Insurance
- Retail Industry and Digital Marketing
- Health, Treatment, and Health Services
- Logistics and Supply Chain Industry
- Information and Communication Technology Industry
- Electricity, Energy, Mining, Metals, and Steel Industry
- Automotive Industry

## Important Dates:

- **Paper Submission Deadline:** 8/16/2024
- **Proposed Workshop Submission Deadline:** 9/21/2024
- **Booth Request Deadline:** 9/27/2024
- **Conference Dates:** 23 and 24th Oct 2024

### Submission Guidelines:

Papers should be written in Persian or English, presenting new work not previously published in other conference proceedings or journals. Simultaneous submission to other conferences will result in rejection of the paper at any stage of detection. Papers must be submitted electronically via the conference website, in PDF format up to 6 pages, with an abstract in Word format up to one page, following the template available on the conference website. For each accepted paper, at least one author must register for the conference and present the paper. Selected papers will be considered for publication in a special issue of the "Journal of Innovations in Computer Science and Engineering" following the conference.

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**Tracks and Topics:**

1. **Governance, E-Government, and Digital Economy**
   - Enterprise Architecture and Digital Transformation
   - Enterprise Architecture and E-Government Implementation
   - Integrated Smart Information Governance
   - Data and Information Architecture and Management Dashboards
   - Digital Economy
   - National Data Management
   - Enterprise Architecture and Digital Value Creation
   - Data Governance and Enterprise Architecture
   - IT Governance and Enterprise Architecture
   - Digital Governance Models and Frameworks
   - Enterprise Architecture and Digital Governance Implementation

2. **Business Architecture**
   - Role of Enterprise Architecture in Business Leadership
   - Value Creation and Smart Business Models
   - Agile and Smart Enterprises
   - Enterprise Architecture and Strategic Management
   - Capability-Based Planning (CBP)
   - Innovation Ecosystem Architecture
   - Virtual Enterprises Architecture
   - Ontology of Enterprise Architecture, Enterprise, and Business
   - Alignment of IT with Business
   - Business Intelligence Systems Architecture
   - Data-Driven Capabilities in Enterprise Architecture

3. **Infrastructure and Security Architecture**
   - Patterns and Reference Architectures for Infrastructure Layers
   - Enterprise Architecture and Cybersecurity
   - Cyber Awareness
   - Security of Communication Equipments
   - Enterprise Service Security
   - Novel Information Security Frameworks
   - Data Privacy Protection in Enterprises
   - Design and Implementation of Security Operations Centers (SOC) with Enterprise Process Attack Detection Approach
   - DevSecOps in Enterprise Architecture
   - Security Risk Audit and Analysis in Enterprises

4. **Enterprise Architecture and Business Process Management (BPM)**
   - Business Process Reengineering
   - Agile Enterprises Leveraging Business Intelligence
   - Enterprise Decision Support Systems
   - Recommender Systems for Enterprise Architecture
   - Enterprise Modeling and Process Mining
   - Modeling and Management of Business Processes
   - Self-Adaptive Business Process Management
   - Enterprise Knowledge Engineering and Management
   - AI in Business Process Management
   - Enterprise Process Automation
   - LLM for BPM

5. **Digital and Emerging Technologies**
   - Enterprise Architecture and AI
   - Enterprise Architecture and RPA

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معـــــــاری ســازمــانی ایــــران

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- o Digital Twins
- o Enterprise Architecture and Industry 4.0
- o Interactions of Enterprise Architecture and AI (AI4EA – EA4AI)
- o IoT in Enterprise Architecture
- o Digital Maturity of Enterprises
- o Machine Processing of Enterprise Architecture Models
- o Innovation Drivers and New Technology Adoption
- o Cloud Computing
- o Smart Business Technologies
- o Blockchain Applications in Enterprise Architecture
- o Digital Enterprise Knowledge Management
- o Augmented Reality and Business Process Management
- o Metaverse Applications in Enterprise Architecture

6. **Smart Services Architecture**
   - o Enterprise Architecture and Neuromarketing
   - o Reference Models for Enterprise Services Architecture
   - o Service Quality Modeling and Evaluation
   - o Service Development Maturity Tools and Models
   - o Enterprise Service Development Tools
   - o Enterprise Service Adaptability
   - o Simulation and Emulation of Enterprise Services
   - o AI-Based Services in Enterprises
   - o LLM4EA: Large Language Models for Enterprise Architecture

7. **Management and Leadership in Enterprise Architecture**
   - o Enterprise Architecture Automation
   - o EA as a Service
   - o Human Capital Architecture

- o Management, Monitoring, and Maintenance of Enterprise Architecture
- o Enterprise Architecture Governance
- o Knowledge and Skills of Human Resources (Competency Models)
- o Education, Culture Building, and Acceptance of Enterprise Architecture
- o Enterprise Architecture Drivers
- o Agile Enterprise Architecture
- o Evolution and Improvement Cycle of Enterprise Architecture
- o Key Performance Indicators and Efficiency Measurement Models in Enterprise Architecture
- o Self-Adaptive Enterprise Risk Management

8. **Challenges and Solutions in Enterprise Architecture**
   - o Role of Regulations in Reducing Challenges and Providing Solutions
   - o Role of Standardization in Facilitating Enterprise Architecture Implementation
   - o Audit of Successful and Unsuccessful Enterprise Architecture Projects
   - o Challenges of Education and Culture Building in Enterprise Architecture Implementation
   - o Technical and Social Infrastructure