InterOP - VLab

I-ESA'14
CALL FOR PAPERS

MINES Albi-Carmaux

INTEROPERABILITY FOR ENTERPRISE SYSTEMS AND APPLICATIONS
"INTEROPERABILITY FOR AGILITY, RESILIENCE AND PLASTICITY OF COLLABORATIONS"

Pre-conference March 24th-25th, 2014
Conference March 26th-28th, 2014

ALBI (FRANCE)
Mines Albi-Carmaux / INTEROP VLab

Organized by **Ecole des Mines Albi-Carmaux** on behalf of **Pôle GSO** ("Grand Sud-Ouest" French Pole of INTEROP-VLab) and the **INTEROP-VLab** (International Virtual Laboratory for Enterprise Interoperability).
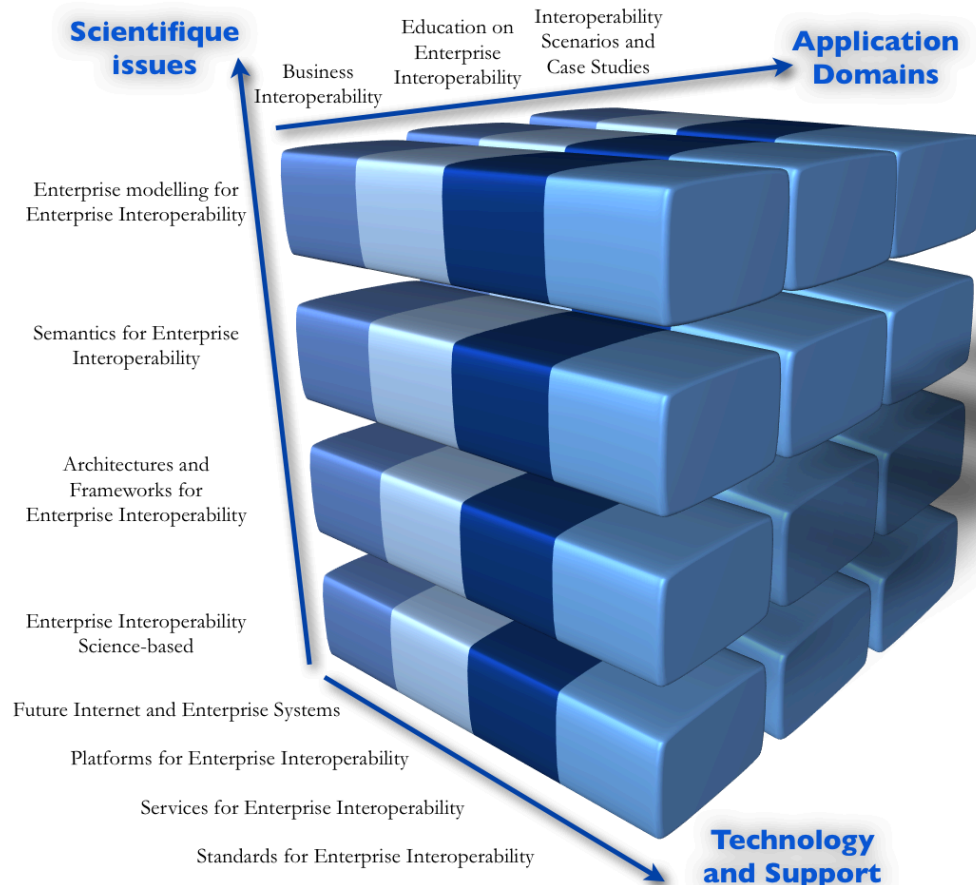

SCOPE
Enterprises and organizations (of any kind) embedded in today's economic environment are deeply dependent from their ability to take part into collaborations. Consequently, it is strongly required for them to be able to take part into emerging, potentially opportunistically, collaborative networks. The concept of "**interoperability**" has been defined by INTEROP-VLab as "The ability of an enterprise system or application to interact with others at a low cost in a flexible approach". Consequently, interoperability of organizations appears as a major issue to succeed in building on the fly emerging enterprise networks.

TOPICS OF INTEREST

This edition of I-ESA is subtitled with "**interoperability for agility, resilience and plasticity of collaborations**". Establishing efficient and relevant collaborative situations requires to manage interoperability on a dynamic point of view: a relevant and efficient collaboration of organizations might require adaptation to remain in line with potentially changing objectives, potentially evolving resources, unexpected events, etc. This specific aspect of interoperability will be the keystone of I-ESA 2014.

Furthermore, the topics of I-ESA 2014 aims at being in line with the vision presented in the framework program **Horizon 2020** regarding interoperability: *Enterprise interoperability and Innovation, Interoperability strategies for Digital and Sensing Enterprise, System Interoperability in Internet of everything.*

The following picture presents the overall framework of topics for I-ESA 2014

- **Business interoperability**
    - o   Business interoperability requirements
    - o   Business process interoperability
    - o   Knowledge management in networked enterprises
    - o   Legal issues for interoperability
    - o   Security issues in interoperability
    - o   The human factor in interoperability
- **Enterprise modelling for enterprise interoperability**
    - o   Distributed modelling
    - o   Meta-modelling
    - o   Methods and tools
    - o   Requirements engineering for interoperable enterprise
    - o   Service modelling for business
    - o   Synchronization of models
- **Semantics for enterprise interoperability**
    - o   Enterprise applications analysis and semantic elicitation
    - o   Reasoning, methods and tools for model transformation and data reconciliation
    - o   Semantic mediation and enrichment of enterprise models
    - o   Semantic Web-based approaches
- **Architectures and Frameworks for interoperability**
    - o   Agent-based approaches for interoperability
    - o   Enterprise application integration

- o Model Driven Architectures
- o Service Oriented (Enterprise) Architecture
- o Ubiquity, mobility, open architectures and large scale interoperability
- **Future internet and enterprise systems**
  - o Future internet and enterprise interoperability
  - o Future internet in enterprise collaboration and virtual organizations
  - o Future internet and digital ecosystems
  - o Next generation and vision for FInES
- **Platforms for enterprise interoperability**
  - o Intelligent infrastructure and automated methods for business system integration
  - o Internet of future
  - o Interoperability of operational systems – aspects of service management
  - o Non-functional aspects of interoperable solutions
  - o Open-platforms supporting collaborative businesses
- **Services for enterprise interoperability**
  - o Utility and value added services for enterprise interoperability
  - o Micro-services, negotiation and federated interoperability
  - o Service-oriented integrated development environment (IDE) for enterprise interoperability
  - o Service science management and engineering
  - o Cloud computing, everything as a service (XaaS)
- **Enterprise interoperability science based**
  - o Concepts, theories and principles for solving enterprise interoperability problems
  - o Frameworks for the development of enterprise interoperability science-based
  - o Contribution for enterprise interoperability science-based from neighbouring scientific domains
  - o Proof of concept and assessment in enterprise interoperability science-based
- **Standards for interoperability**
  - o Challenges in standardisation
  - o Open standards
  - o Standardisation policies
  - o Standards organizations works on enterprise interoperability
- **Interoperability scenarios and case studies**
  - o How to reduce application gaps of new interoperability results
  - o Initiatives and communities
  - o New interoperability Scenarios and derived requirements
  - o Problem statements
  - o Success stories and lessons learnt
- **Education on enterprise interoperability**
  - o Business needs
  - o Curricula on enterprise interoperability
  - o Educational methods
  - o Vocational training on enterprise interoperability

IMPORTANT DATES

- **Conference:**
  - o Full paper submission deadline: September 20th, 2013
  - o Author notification due: November 15th, 2013
  - o Camera-ready copies due: December 1st, 2013
  - o Conference: March 26th-28th, 2014
- **Workshops:**
  - o Workshop proposals: September 13th, 2013
  - o Acceptance notification due: October 5th, 2013
  - o Workshop deadline for papers: December 20th, 2013
  - o Workshop content publication: January 31th, 2014
  - o Workshop: March 24th-25th, 2014
- **Doctoral Symposium:**
  - o Paper submission deadline: October 19th, 2013
  - o Author notification due: November 22th, 2013
  - o Camera-ready copies due: December 14th, 2013
  - o Doctoral Symposium: March 24th, 2014

INSTRUCTIONS FOR AUTHORS

A package with formatting instructions for **full papers** (10 pages length articles for the conference), **workshop proposal** (2 pages description), **Workshop papers** (6 pages length articles for workshops) and **Doctoral papers** (6 pages length articles for doctoral symposium) and a MSWord template con be downloaded from the section "Paper submission" at http://www.i-esa.org/.

CONFERENCE

I-ESA brings together the world's leading researchers and practitioners in the area of enterprise interoperability: it is a unique forum for the exchange of visions, ideas, research results and industrial experiences, dealing with a wealth of interoperability research subjects for business, enterprise applications and software.

The industry will find at I-ESA'14 an outstanding opportunity to exchange experience and problems on business interoperability in their daily operations. I-ESA series of conferences have become a forum where industry and research worlds meet and share experience, ideas and problems on different interoperability aspects.

I-ESA´14 is definitely "the event" for those who want to know the future, the forefront of research and the industry expertise/viewpoint in this very important domain of Enterprise Interoperability.

WORKSHOPS

I-ESA invites proposals for workshops to be held in conjunction with the main conference. Workshops should provide opportunities to present and discuss results from:

- Funded collaborative projects (national or European),
- Specific application domains for interoperability research (e-health, e-administration, etc.),
- Studies regarding particular issues (emerging technologies, etc.),
- Etc.

DOCTORAL SYMPOSIUM

The doctoral symposium is an opportunity for students involved in the preparation of their PhD in any area of enterprise interoperability to interactively discuss their research issues with senior researchers. More information on the Doctorial Symposium at http://www.i-esa.org/.

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- Xiaofei XU, Harbin Institute of Technology (CN): Enterprise Modelling for Enterprise Interoperability)
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