

Topic List

I-ESA18

INTEROPERABILITY OF ENTERPRISE SYSTEMS AND APPLICATIONS



Topic List



	page
Business Interoperability	3
Enterprise Modeling for Enterprise Interoperability	4
Ontology and Semantics for Enterprise Interoperability	5
Architectures and Frameworks for interoperability	6
Interoperability Application Scenarios	7
Education on Enterprise Interoperability	8
Standards for Interoperability	9
Future Internet and Data Space Architectures	10
Services for Enterprise Interoperability and Digital Twins	11
Privacy, Security and blockchain in Enterprise Interoperability	12
Platforms and infrastructures for Enterprise Interoperability	13
Interoperability in Industry 4.0	14
Interoperability in Industrial Automation	15

Local Organizer:



I-ESA 2018 Topic List

A conference of



Business Interoperability



- Business interoperability requirements
- Business Process interoperability
- Knowledge management in networked enterprises
- The human factor in interoperability
- Decision and co-evolution strategies for dynamic enterprise networks

Experts:

Klaus Dieter Thoben

Yves Ducq

Local Organizer:



I-ESA 2018 Topic List

A conference of



Enterprise Modeling for Enterprise Interoperability



- Distributed Modeling for interoperability
- Meta-Modelling for interoperability
- Methods and Tools for interoperability
- Requirements engineering for interoperable enterprises
- Service Modeling for Business
- Synchronization of models

Experts:

Frank-Walter Jäkel

Carlos Agostinho

Local Organizer:



I-ESA 2018 Topic List

A conference of



Ontology and Semantics for Enterprise Interoperability



- Enterprise applications analysis and semantic elicitation
- Reasoning methods and tools for model transformation and data reconciliation
- Semantic mediation and enrichment of enterprise models
- Semantic Web based approaches
- Dynamic and incrementable model management
- mappings and transformations

Expert:
Hervé Panetto

Local Organizer:



I-ESA 2018 Topic List

A conference of



Architectures and Frameworks for Interoperability



- Agent based approaches to interoperability
- Enterprise Application Integration
- Model Driven Architectures
- Service Oriented (Enterprise) Architectures
- Ubiquity, mobility, open architectures and large scale interoperability

Experts:

Martin Wollschlaeger

Sergio Gusmeroli

Local Organizer:



I-ESA 2018 Topic List

A conference of



Interoperability Application Scenarios



- Industrial Cases and Business Impact
- Implementation Methodologies
- Sustainability of Interoperability Approaches and Solutions
- Success Stories and Lessons Learned
- Business Models for Interoperability

Experts:
Thomas Knothe

Local Organizer:



I-ESA 2018 Topic List

A conference of



Education on Enterprise Interoperability



- Business needs about Education on Enterprise Interoperability
- Curricula on Enterprise Interoperability
- Educational Methods on Enterprise Interoperability
- Vocational Training on Enterprise Interoperability

Experts:
Guy Doumeingts
Néjib Moalla

Local Organizer:



I-ESA 2018 Topic List

A conference of



Standards for Interoperability



- Bridging the gap between research and standardisation
- Open EI standards, open source and open innovation
- Standardisation management and strategies
- Development, implementation and diffusion of standards in industry

Experts:
Martin Zelm
David Chen

Local Organizer:



I-ESA 2018 Topic List

A conference of



Future Internet and Data Space Architectures



- Cloud platforms for the Internet of Things
- Interoperability in data lake architectures
- Industrial data platforms and data space architectures
- Linked data for enterprise interoperability
- Semantic interoperability in business and industrial ecosystems
- Data value chain design and data governance
- Master data management and data quality for the future internet
- Data governance in industrial ecosystems
- Next generation and vision for future internet enterprise systems

Expert:
Boris Otto

Local Organizer:



I-ESA 2018 Topic List

A conference of



Services for Enterprise Interoperability and Digital Twins



- Utility and value added services for enterprise interoperability
- Micro-services, negotiation and federated interoperability
- Service-oriented integrated development environment (IDE) for enterprise interoperability
- Service science management and engineering
- Cloud computing, everything as a service (XaaS)

Experts:

Keith Popplewell

Ricardo Gonçalves

Privacy, Security and blockchain in Enterprise Interoperability



- Ontology of Blockchain Technologies
- Security issues in interoperability
- Legal issues for interoperability
- Trust, distribution and security in Enterprise Interoperability
- Blockchain for IT Interoperability in Healthcare
- Blockchain-based architectures for IoT
- Privacy, Security and blockchain in for databases interoperability
- Blockchain in the context of decentralization and privacy

Experts:

Gash Bhullar

Néjib Moalla

Platforms and infrastructures for Enterprise Interoperability



- Open platforms supporting collaborative businesses
- Simulation for enterprise interoperability analysis
- Monitoring enterprise interoperability
- Solutions for interoperability in complex adaptive systems

Experts:
Bob Young
Raul Poler

Local Organizer:



I-ESA 2018 Topic List

A conference of



Interoperability in Industry 4.0

- Robust and flexible approaches to Industry 4.0 interoperability
- Industrial ontologies for interoperability in Industry 4.0
- Semantic technologies and middleware for interoperability in Industry 4.0
- Interoperability of Cyber-Physical Systems and Product Embedded Information Devices (PEID) in Industry 4.0
- Interoperability of Industry 4.0 applications with unstructured data sources (e.g. Social Media; Help Desks, Customer Forums, etc.)

Experts:

Karl Hribernik

Wernher Behrendt

Interoperability in Industrial Automation



- Interface specifications for industrial automation
- Control systems interoperability
- Solutions for interoperability in low-cost sectors
- Functional safety of interoperable production systems
- Real-time data exchange in industrial automation based on interoperable entities
- Future demands for technical entities in cyber-physical systems

Expert:
Jörg Reiff-Stephan

SAVE THE DATE

I-ESA'18 [9th INTERNATIONAL CONFERENCE]



INTEROPERABILITY FOR ENTERPRISE SYSTEMS AND APPLICATIONS

“Smart Services and Business Impact of Enterprise Interoperability”

March 22nd to March 23rd 2018
Berlin, Germany

Pre-conference March 19th to March 21st

InterOP - VLab

In 2018, **Fraunhofer IPK** is the local organiser