

10th INTERNATIONAL CONFERENCE ON INTEROPERABILITY FOR ENTERPRISE SYSTEMS AND APPLICATIONS

"INTEROPERABILITY IN THE ERA OF ARTIFICIAL INTELLIGENCE"

Online Event, November 17th-19th

ORGANIZED BY

InterOP - VLab



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	TUESDAY November 17 th				WEDNESDAY November 18 th				THURSDAY November 19 th
	Opening & Welcome								Special event Digitalisation in Industry and Health in Europe
08:30 - 09:00	Keynote speaker 1 - Pr. Dimitris Kiritsis CT FOR SUSTAINABLE MANUFACTURING AT EPFL, SWITZERLAND				Keynote speaker 2 - Pr. Fernando Mas - CTO (CHIEF TECHNOLOGY OFFICER) AT M&M Aeronauticos, Sapin				Keynote speaker 3 - Arian Zwegers, European Commission, DG Connect
09:00 - 10:00	Coffee break				Coffee break				Coffee break
10:00 - 10:30	Track 1. Semantics-Driven approaches	Track 2. Digital Twin	Track 3. IOT & Digital Platforms	Track 4. Model-driven approaches	Track 5. Ontology-based engineering	Track 6. Data and Knowledge Modeling	Track 7. Business oriented applications	Workshop 8. Pathways towards a Modelling and Architecture Language for Interoperable Cyber-Physical Systems	Session Industry Presentation DIH4CPS European Project (Digital Innovation Hub for Cyber Physical System)
10:30 - 12:00									
12:00 - 12:30	Lunch Break				Lunch break				Lunch break
12:30 - 13:30	Workshop 1.1 A Future Vision of Flexible Configurable Manufacturing in a Digitised World	Workshop 2.1 Smarter interoperability with federation and artificial intelligence	Workshop 3.1 Interoperability for Crisis Management: Increasing Organizational Resilience	Workshop 4.1 Interoperability for maintenance: Semantic model, terminology and ontology, advances and way forward for the maintenance of the future	Workshop 5.1 Industrial Ontology Foundry (IOF) – achieving data interoperability	Workshop 6.1 Zero defects Manufacturing platforms	Workshop 7.1 Digital Platform Ecosystems: From Interoperability to Federation	Workshop 9.1 Challenges of Enterprise Interoperability in industry	Session Health Presentation of 3 European Projects Smart4Health: Citizen-centred EU-EHR exchange for personalised health Cross-border person-centred health information exchange: the InteropEHRate approach Smart Bear - An Elderly-driven approach for Personalised Support, Healthy and Independent Living at Home
13:30 - 15:30									
15:30 - 16:00	Coffee break				Coffee break				Coffee break
16:00 - 17:00	Workshop 1.2 A Future Vision of Flexible Configurable Manufacturing in a Digitised World	Workshop 2.2 Smarter interoperability with federation and artificial intelligence	Workshop 3.2 Interoperability for Crisis Management: Increasing Organizational Resilience	Workshop 4.2 Interoperability for maintenance: Semantic model, terminology and ontology, advances and way forward for the maintenance of the future	Workshop 5.2 Industrial Ontology Foundry (IOF) – achieving data interoperability	Workshop 6.2 : Zero defects Manufacturing platforms	Workshop 7.2: Digital Platform Ecosystems: From Interoperability to Federation	Workshop 9.2 : Challenges of Enterprise Interoperability in industry	Panel discussion How to introduce Digitalisation in Industry and Health Technical, Economic and Social aspects
17:00 - 17:30									

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Tuesday 17-November -2020	
08:30 - 09:00	Opening & Welcome
09:00 - 10:00	Keynote speech: Industrial Data Sharing for Cognitive Analytics & Manufacturing. By Prof. Dimitris Kiritsis Professor of ICT for Sustainable Manufacturing at EPFL Session Chair: Hedi Karray
10:00 - 10:30	Coffee break
10:30- 12:30	Chairs: Prof. Bob Young Transition from Work-As-Imagined to Work-As-Done Processes through Semantics: An Application to Industrial Resilience Analysis <i>Antonio De Nicola, Giordano Vicoli, Maria Luisa Villani, Francesco Costantino, Giulio Di Gravio, Andrea Falegnami, Riccardo Patriarca, Massimo Tronci</i> Knowledge Extraction for an Integrated Product Development Process based on Ontology-Driven Semantic Interoperability <i>Athon F. C. S. de Moura Leite, Matheus Beltrame Canciglieri, Anderson Szejka, Osiris Canciglieri Junior, Bob Young</i> Towards Adaptive, Interactive, Assistive and Collaborative Assembly Workplaces through Semantic Technologies <i>Izaskun Fernandez, Patricia Casla, Iker Esnaola, Laure Parigot, Angelo Marguglio</i> A Semantic Interface model to support the integration of drones in a Cyber-Physical factory <i>Puviyarasu Subramaniam anbuhezian, Farouk Belkadi</i>
	Chairs: Prof. G. Zacharewicz & Dr. Raymond Houe-Ngouna A Digital Twin Model Driven Architecture for Cyber-Physical and Human Systems <i>Milad Poursoltan, Mamadou Kaba Traoré, Bruno Vallespir, Nathalie Pinède</i> Digital Twin-Driven Design: A framework to enhance system interoperability in the era of Industry 4.0 <i>Lebjoui Safaa, Mamadou Kaba Traoré, Yves Duçq</i> A Survey on Public Datasets for Digital Twin-based Automotive Cybersecurity Validation <i>Violeta Damjanovic-Behrendt</i>
	Chairs: Prof. Yacine Ouzrout & Prof. Hervé Pingaud Governance Mechanisms for Federated Digital Platform Ecosystems <i>Violeta Damjanovic-Behrendt, Wernher Behrendt</i>
	Chairs: Prof. Bob Young Transition from Work-As-Imagined to Work-As-Done Processes through Semantics: An Application to Industrial Resilience Analysis <i>Antonio De Nicola, Giordano Vicoli, Maria Luisa Villani, Francesco Costantino, Giulio Di Gravio, Andrea Falegnami, Riccardo Patriarca, Massimo Tronci</i> Knowledge Extraction for an Integrated Product Development Process based on Ontology-Driven Semantic Interoperability <i>Athon F. C. S. de Moura Leite, Matheus Beltrame Canciglieri, Anderson Szejka, Osiris Canciglieri Junior, Bob Young</i> Towards Adaptive, Interactive, Assistive and Collaborative Assembly Workplaces through Semantic Technologies <i>Izaskun Fernandez, Patricia Casla, Iker Esnaola, Laure Parigot, Angelo Marguglio</i> A Semantic Interface model to support the integration of drones in a Cyber-Physical factory <i>Puviyarasu Subramaniam anbuhezian, Farouk Belkadi</i>
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Semantics-Driven approaches Track	
Digital Twin Track	
IOT & Digital Platforms Track	

		<p>A B2B Marketplace eCommerce Platform Approach Integrating Purchasing and Transport Processes. <i>Suat Gönül, Doğukan Çavdaroğlu, Yıldırım Kabak, Dietmar Glachs, Fernando Gigante-Valencia, Quan Deng</i></p> <p>Analysis of Data Exchange among Heterogeneous IoT Systems <i>Jannik Laval, Nejib Moalla, Nawel Amokrane, Mustapha Derras</i></p> <p>Applying distributed ledger technology to facilitate IIoT data exchange: an approach based on IOTA Tangle <i>Xiaochen Zheng, Shengjing Sun, Joaquín Ordieres-Meré, Dimitris Kiritsis, Jinzhi Lu</i></p>
10:30-12:30	Model-driven approaches Track	<p>Chairs: Prof Yves Ducq & Prof. Martin Zelm</p> <p>Integrated Model Based Configuration of Production Systems – Reflection of ISO 19440 and MDA and MDI. <i>Thomas Knothe, Patrick Gering, Frank-Walter Jaëkel, Jan Torka</i></p> <p>A usage model to enrich MDSEA approach. <i>Christophe Merlo, Véronique Pilnière, Katarzyna Borgiel</i></p> <p>Combining reference models for eliciting requirements in Industry 4.0 projects: A Demonstration Case <i>Nuno Santos, Jaime Pereira, Francisco Morais, Joao Mendonca, Ricardo Machado</i></p> <p>A Reference Model for Interoperable Living Labs Towards Establishing Productive Networks. <i>Majid Zamiri, Joao Sarraipa, Ricardo Goncalves</i></p>
12:30 - 13:30	Lunch Break	
13:30-15:30	Future Vision of Flexible Configurable Manufacturing in a Digitised World session 1	<p>Chair: Bob Young</p> <p>An Integrators perspective on AI-Enhanced Cyber-Physical Systems to support Flexible Configurable Manufacturing. <i>Gash Bhullar, Control2K</i></p> <p>Integrated Enterprise modelling to achieve interoperability. <i>Frank-Walter Jaekel, IPK</i></p> <p>An Embedded Intelligence Future Vision of Flexible Configurable Manufacturing. <i>Paul Goodall et al, Loughborough University</i></p> <p>Flexible Peer-to-Peer Production in a Digital Business Ecosystem. <i>Michele Missikoff, IASI-CNR, Rome</i></p>
13:30-15:30	Smarter interoperability with federation and artificial intelligence session 1	<p>Chair: Van Sinderen</p> <p>A federated interoperability approach for achieving data driven logistics support to SMEs. <i>Jean Paul Sebastian Piest, Maria-Eugenia Iacob and Marten van Sinderen</i></p> <p>FAIRificaton platform: a federated approach for semantic rich FAIR data. <i>Joao Moreira, Luis Ferreira Pires, Marten van Sinderen and Luiz Olavo Bonino</i></p>

		<p>Increasing interoperability in the Web of Things using Autonomous Agents. <i>Edison Chung, - Maxime Lefrancois and Olivier Boissier.</i></p> <p>Smarter interoperability based on automatic schema matching and intelligence. <i>Jean Paul Sebastian Piest and Lucas O. Meertens.</i></p>
13:30-15:30	Interoperability for Crisis Management: Increasing Organizational Resilience session 1	<p>Chair: Antonio De Nicola</p> <p>Towards a unified approach of interoperability to facilitate the transfer from research to industry: application to crisis management. <i>Sébastien Truptil Philippe Limousin, Louis-Pierre Berge, Radhouene Azzabi, Hubert Dudois.</i></p> <p>Improving crisis management training in critical and sensitive sites using Virtual Reality. <i>Aurélie Conges, Alexis Evain, Frederick Benaben, Sébastien Rebiere, Nicolas Salatge.</i></p> <p>Towards a Framework for Definition of Enterprise Safety Indicators. <i>Francesco Costantino, Antonio De Nicola, Giulio Di Gravio, Andrea Falegnami, Riccardo Patriarca, Massimo Tronci, Giordano Vicoli, Maria Luisa Villani</i></p>
13:30-15:30	Interoperability for maintenance: Semantic model, terminology and ontology, Advances and Way forward for the maintenance of the future Session1	<p>Chair: Yves Keraron</p> <p>Scheduling predictive maintenance with production tasks: A steel industry case study -Nikolaos Nikolakis Lms - University of PATRAS, Xanthi Bampoula, Kosmas Alexopoulos</p> <p>How Data Models Can Contribute to Linking Real-Life Assets with their Digital Twin – A Case Study in Predictive Maintenance. <i>Moritz von Stietencron, BIBA, Karl Hribernik, Biba, Klaus-Dieter Thoben, Biba</i></p> <p>Ontologies combining design semantics and semantics used in operation and maintenance: Feedback from EDF power plants case studies <i>Dourgnon Anne - EDF, Antoine Alain - Université de Lorraine, Samba Mansor - ATOS Sénégal</i></p> <p>Maintenance terminology standards: some issues and the need of a shared framework for interoperability <i>Yves Keraron - ISADEUS, Antoine Despujols - AFIM/EFMS</i></p>
15:30 - 16:00	Coffee break	
16:00 - 17:30	Future Vision of Flexible Configurable Manufacturing in a Digitised World session 2	<p>Chair: Bob Young</p> <p style="text-align: center;">PANEL DISCUSSION</p>
		Chair: Van Sinderen

16:00 - 17:30	Smarter interoperability with federation and artificial intelligence session 2	<p>Semantic interoperability for thematic integration of digital objects from health collections. <i>Claudio Jose S. Ribeiro, Alexandre Medeiros Correia De Sousa And João Luiz Rebelo Moreira</i></p> <p>Improving the planning of a logistic service provider with the use of machine learning. <i>Thomas Wijnhoven and Prince Singh</i></p> <p>Examining Enterprise Architecture for Digital Transformation <i>Daniel Rozo,</i></p>
16:00 - 17:30	Interoperability for Crisis Management: Increasing Organizational Resilience session 2	<p>Chair: Antonio De Nicola</p> <p style="text-align: center;">PANEL DISCUSSION</p>
16:00 - 17:30	Interoperability for maintenance: Semantic model, terminology and ontology, Advances and Way forward for the maintenance of the future session 2	<p>Chair: Yves Keraron</p> <p style="text-align: center;">PANEL DISCUSSION</p>
18 :00- 19 :30	Welcome Cocktail	

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Wednesday 18-November-2020	
09:00 - 10:00	<p>Keynote speech – <i>From concept to delivery in large business jets industry: how ontologies can help to the End-2-End process</i> By Dr. Fernando Mas, M&M Chief Technology Officer Science, Technology and R&D at M&M Aeronauticos, Spain Session Chair: Raymond Houé-Ngouna</p>
10:00 - 10:30	Coffee break
10:30-12:30	<p>Chairs: Prof. Dimitris Kirtsis & Prof. João Mendonça</p> <p>Towards Manufacturing Ontologies for Resources Management in the Aerospace Industry <i>Rebeca Arista, Fernando Mas, Manuel Oliva, Carpoforo Vallellano, Domingo Morales-Palma</i></p> <p>Upper-level ontology driven integration of domain ontologies: Application to disaster management <i>Linda Elmhadhbi, Maroua Masmoudi, Mohamed-Hedi Karray, and Bernard Archimède</i></p> <p>Ontology Driven Semantic Reconciliation In A Multi-Domain Product Development Process <i>Matheus Beltrame Canciglieri, Anderson Szejka, Osiris Canciglieri Junior, Athon Francisco Curi Staben de Moura Leite, Eduardo de Freitas Rocha Loures, Robert Young</i></p> <p>Implementing Semantic Interoperability in Cloud Collaborative Manufacturing: A Demonstration Case for an Asset Efficiency Testbed <i>Jaime Pereira, João Mendonça, Daniel Pimenta, Daniel Dias, Paula Monteiro, Francisco Morais, Nuno Santos, Fernando Pereira, João Carvalhal</i></p>
	<p>Chairs: Prof. Raul Poler & Dr. Antonio De Nicola</p> <p>Knowledge representation for hierarchical and interconnected business contexts. <i>Elena Jelisic, Nenad Ivezic, Boonserm Kulvatunyou, Scott Nieman, Hakju Oh, Nenad Anicic, Zoran Marjanovic</i></p> <p>Modeling and sharing knowledge in expertise processes. <i>Serge Souchio, Laurent Geneste, Bernard Kamsu</i></p> <p>A Benchmarking of Reference Models for Digital Manufacturing Platforms <i>Francisco Fraile, Raquel Sanchis, Angel Ortiz, Raul Poler, Victor Anaya</i></p> <p>Learning with Gaussian Processes for Interoperable Weather Data Modeling <i>Bernard Kamsu Foguem, Lassana Coulibaly, Fana Tangara</i></p>
10:30-12:30	<p>Ontology-based engineering Track</p>
10:30-12:30	<p>Data and Knowledge Modeling Track</p>

		<p>Metadata for Complementing Standards and Formalisation of the Technical Reserve Calculation <i>Ana Halabi-Echeverry, Juan C. Aldana-Bernal, Giusty Guerrero-De la Hoz</i></p>
10:30-12:30	Business oriented applications Track	<p>Chairs: Prof. Bruno Vallespir & Dr. Elyes Lamine</p> <p>Introduction to a physics-based theory to manage risks and opportunities in supply chains. <i>Thibaut Cerabona, Frederick Benaben, Louis Faugère, Matthieu Lauras, Jean-Philippe Gitto, Benoit Montreuil</i></p> <p>A declarative approach for change impact analysis of business processes. <i>Adeel Ahmad, Henri Basson, Mourad Bouneffa, Michiko Matsuda</i></p> <p>A Framework to formulate Models and identify Algorithms to solve large sized industrial planning problems <i>Beatriz Andres, Raul Poler, Eduardo Guzman</i></p> <p>Empowering Process Quality through Microservices. A ZDMP Perspective <i>Victor Anaya, Raul Poler, Angel Ortiz, Francisco Fraile</i></p> <p>Interoperability concerns for Multidimensional Urban Mobility within the frame of MaaS <i>Faheem Ahmed Abassi, Mohammed Hedi Karray, Raymond Houe, Muhammad Ali Memon, Bernard Archimède</i></p>
10:30-12:30	Workshop On Pathways towards a Modelling and Architecture Language for Interoperable Cyber-Physical Systems	<p>Chair: Dr. Georg Weichhart</p> <p>Rethinking Interoperable Cyber-Physical Systems (CPS) as Interactive Behavior Designs <i>Christian Stary</i></p> <p>Path simulation in BPMN workflow using resource aggregation <i>Kawtar Ougaabal, Grégory Zacharewicz, Yves Ducq and Said Tazi</i></p> <p>How to design a smart factory? <i>Magnus Åkerman, Patrik Fager and Åsa Fast-Berglund</i></p> <p>Pathways to CP(P)S Modelling & Architecting <i>Georg Weichhart, Herve Panetto,</i></p>
12:30 - 13:30	Lunch Break	
13:30-15:30	Industrial Ontology Foundry (IOF) – achieving data interoperability session 1	<p>Chairs: Dimitris Kiritsis, Neil Otte</p> <p>The Industrial Ontologies Foundry (IOF) perspectives. <i>Mohamed Hedi Karray, Neil Otte, Dimitris Kiritsis, Rahul Rai, Farhad Ameri, Boonserm Kulvatunyou, Chris Will, Rebeca Arista, and Barry Smith</i></p> <p>An Analysis of the IOF Architecture – a Systems Integration Perspective. <i>Boonserm Kulvatunyou, Minchul Lee and Megan Katsumu</i></p> <p>Towards a Reference Ontology for Maintenance Work Management. <i>Melinda Hodkiewicz, Caitlin Woods, Farhad Ameri and Emily Low</i></p>

		<p>Progress on IOF's Process and Production Planning Reference Ontology. <i>Dušan Šormaz, Arkopaul Sarkar, Evan Wallace, Walter Terkaj and Cris Will</i></p> <p>Towards a Reference Ontology for Supply Chain Management. <i>Farhad Ameri, Evan Wallace, Boonserm Kulvatanyou and Chris Wil</i></p>
13:30-15:30	Zero defects Manufacturing Platforms session 1	<p>Chairs: Raul Poler, Ricardo Gonçalves</p> <p>A European Manufacturing Platform for Zero-Defects <i>Stuart Campbell, Santiago Cáceres, Gerardo Pagalday, Raul Poler, Ricardo Gonçalves</i></p> <p>ZDMP Technical Challenge <i>Christian Melchiorre, Philip Usher, Tim Dellas, Alessia Focareta, Mircea Vasile</i></p> <p>ZDMP Core Services and Middleware <i>Artem Nazarenko, Carlos Lopes, Jose Ferreira, Philip Usher, João Sarraipa</i></p> <p>Evolution of Industry 4.0 Platforms within H2020 Projects <i>Tim Dellas, Laura Caroline Ribeiro de Melo</i></p>
13:30-15:30	Digital Platform Ecosystems: From Interoperability to Federation Session 1	<p>Chair: Damjanovic-Behrendt</p> <p>B2B Platform Federation <i>Yoav Tock, Benjamin Mandler, Suat Gönül, Doğukan Çavdaroglu, Nir Naaman and Nir Rozenbaum</i></p> <p>A new data model for logistics in furniture B2B collaborations <i>María José Núñez, Juan Del Agua, Fernando Gigante, Suat Gönül, Doğukan Çavdaroglu</i></p> <p>Evaluation as a Catalyst for the Efficient Cluster Establishment <i>Elsa Marcelino-Jesus, Artem Nazarenko, João Sarraipa, Joao Martins and Ricardo Jardim-Goncalves</i></p> <p>Federated Search <i>Dileepa Jayakody, Nirojan Selvanathan, Violeta Damjanovic-Behrendt</i></p>
13:30-15:30	Challenges of Enterprise Interoperability in industry session 1 (Room E4)	<p>Chair: Frank-Walter Jaëkel</p> <p>Digitalisation toolkit for SMEs. <i>Patrick Gering</i></p> <p>OPC-UA based IIoT and CPS interoperability validation. <i>Frank-Walter Jaëkel</i></p> <p>Trainings center / learning factory for digitization of smart enterprises. <i>Burkhard Schallock</i></p> <p>Mapping IEM to Enterprise Modelling Ontology. <i>Ting LIU, David Chen</i></p> <p>Evaluating and Improving the Internal Security of OPC-UA based Software Applications <i>Marija Jankovic, Miltiadis Siavvas, Dionisis Kehagias</i></p>

15:30 - 16:00	Coffee break	
16:00 - 17:30	Industrial Ontology Foundry (IOF) – achieving data interoperability session 2	Chairs: Dimitris Kiritsis, Chris Will
		PANEL DISCUSSION
16:00 - 17:30	Zero defects Manufacturing Platforms session 2	Chairs: Raul Poler & Ricardo Gonçalves.
		A Technical Approach to Achieve Zero Defects Manufacturing Process in the ZDMP Project <i>Víctor Anaya, Daniela Kirchberger, Juan Pardo, Óscar Salgado, Francisco Fraile</i>
		Modelling, predicting, inspecting and supervising product quality for Zero Defects Manufacturing in ZDMP project <i>Mauro Fabrizioli, Pedro Miguel Villalba, Juan Pardo, Óscar Salgado</i>
16:00 - 17:30	Digital Platform Ecosystems: From Interoperability to Federation Session 2	Security Implications of Interoperability <i>Michael Boniface, Nic Fair, Stefano Modafferi, Juri Papay</i>
		Chair: Damjanovic-Behrendt
16:00 - 17:30	Challenges of Enterprise Interoperability in industry session 2	PANEL DISCUSSION
		Chair: Frank-Walter Jaëkel
19:30- 23:00	CONFERENCE GALA DINNER	

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Thursday 19- November- 2020		
09:00 - 10:00	Keynote speech - Building ICT capacities in Europe By Dr. Arian Zwegers – Programme Officer, European Commission, DG Communications Networks, Content & Technology Session Chair: Prof. Bernard Archimède <i>Room: Grand Amphi</i>	
10:00 - 10:30	Coffee break	
10:30 - 12:30	DIH4CPS (Digital Innovation Hub for Cyber Physical System)	Chairs: Prof. Ricardo Gonçalves (UNINOVA) & Prof. Guy Doumeingts (INTEROP-VLAB)
		Presentation DIH4CPS Project: - The development of the Network: Methods, Tools and Evaluation of the results, - Formalisation of the necessary knowledge based on an ontology - Presentation of 11 Initial Applications Experiments that will be executed within the DIH4CPS project - The preparation of two waves of Open Call to extend the overall network
12:30 - 13:30	Lunch Break	
13:30- 15:30	Presentation of European projects in the health area	Chairs: Prof. Ricardo Gonçalves (UNINOVA) & Prof. Guy Doumeingts (INTEROP-VLAB)
		Smart4Health: Citizen-centred EU-EHR exchange for personalised health <i>Dr. Maria Marques, UNINOVA, Senior Research</i> Cross-border person-centred health information exchange: the InteropEHRate approach <i>Tino Martin, eHealth Project Manager EHTEL (European Health Telematics Association)</i> Smart Bear - An Elderly-driven approach for Personalised Support, Healthy and Independent Living at Home <i>Dr. Carlos Agostinho, UNINOVA</i>
15:30- 16:00	Coffee break	
16:00 - 17:00	PANEL Discussion Session Chairs persons: Arian Zwegers Ricardo Goncalves, Maria Marques, Guy Doumeingts How to introduce Digitalisation in Industry and Health Technical, Economic and Social aspects	