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| <p>08:00 - 08:30 Registration <i>Technohal Atrium</i></p> | | | | |
| <p>08:30 - 09:00 JOWO welcome session <i>Room 3330</i></p> | <p>09:00 - 10:30 Workshop - CAOS8 <i>Room 3138</i></p> <p>- Greetings and Welcome</p> <p>- Presentation of the ACCORD Project (Maria Hedblom)</p> <p>- From Human Cognitive Expertise to Ontological Formalization: Bridging the Knowledge Gap for Nanophotonic Calculator Design and Simulation (Ouassila Labbani Narsis, Erik Dujardin, Christophe Nicolle and Nicolas Gros)</p> <p>- Understanding ASD: Design and Development of a Domain Ontology to Assist Professionals In Understanding Autistic Children Based on DSM-5 (Jessica Lima, Victor Oliveira and Patrício Silva)</p> <p>- Preliminary steps toward an ontology for noun classes in Niger-Congo languages (Abstract) (C. Maria Keet)</p> | <p>09:00 - 10:30 Tutorial - DOLCE in OWL: A tutorial with case studies in industrial engineering Emilio Sanfilippo and Walter Terkaj Chair: Luis Ferreira Pires <i>Room 3338</i></p> | <p>09:00 - 10:30 Workshop - IFOW 2024 <i>Room 2275</i></p> <p>Session: Food Ontology Modelling Chair: Matthew Lange</p> <p>- What is Food? An Investigation into Food Realizables (Adrien Barton)</p> <p>- Between Input and Output: The Importance of Modelling Transients in Meal Preparation Tasks (Michaela Kumpel)</p> <p>- A Food as Medicine Ontology built on Traditional Chinese Medicine Energetics and Food Actions (Neil Sarkar)</p> <p>- Physical, Organoleptic, and Taxonomical Food Characteristic Analysis for Ontologies and Research (Damion Dooley)</p> | <p>09:00 - 10:30 Tutorial - Knowledge engineering for hybrid intelligence Ilaria Tiddi, Victor de Boer, and Stefan Schlobach Chair: João Luiz Rebelo Moreira <i>Room 1336</i></p> |
| <p>10:30 - 11:00 <i>Technohal Atrium</i></p> | | | | |
| <p>11:00 - 12:30 Workshop - Workshop on the convergence of large language models and ontologies - Session 2: Convergence on Trust <i>Room 3330</i></p> <p>- Integrating Ontologies and Large Language Models to Implement Retrieval Augmented Generation (RAG) (Michael DeBellis)</p> <p>- Exploring SPARQL Query Types to Improve Ontology Mapping and Retrieval Augmented Modelling for Auto-Generated Questions (Sairaj R. Tharaniya and S. R. Balasundaram)</p> <p>- Leveraging Knowledge Graphs Inference for Semi-Explainable Systems based on Large Language Models (Carmelo Fabio Longo, Daniele Francesco Santamaria, Misaël Mongiovi, Luana Bulla and Emilio Sanfilippo)</p> <p>- OnTology Integrated Guardian to Enhance Reliability (TIGER) for LLMs (Alex Cox, Greg Tauer, John Beverley, Stephen Moskal, Una-May O'Reilly)</p> | <p>Workshop - CAOS8 <i>Room 3138</i></p> <p>- Ontologies, Arguments, and Large-Language Models (John Beverley, Francesco Franda, Hedi Karray, Daniel Maxwell, Carter-Beau Benson and Barry Smith)</p> <p>- The Geography of Temperature Space (George Wright and Matthew Purver)</p> <p>- What is Abstraction in Biomimetics? (Ludger Jansen)</p> | <p>11:00 - 12:30 Tutorial - Events, processes, and their descriptions Nicola Guarino Chair: Riccardo Baratella <i>Room 3338</i></p> | <p>11:00 - 12:30 Workshop - IFOW 2024 <i>Room 2275</i></p> <p>Session: Farm to Fork Food System Representation Session chairs: Felix Bindt and Ido Toxopeus</p> <p>- To ontology, and beyond! Modernizing a widely adopted reference model for agriculture (Daoud Urdu)</p> <p>- Ontologies for Food Systems Sustainability: A Meta-Framework (Giorgio Alberto Ubbiali)</p> <p>- The Role of Ontologies in Data Spaces for Food Systems – A Conceptual Framework for Ethical Reflexivity and Semantic Interoperability (Roel Veraart)</p> <p>- Developing a Comprehensive Ontology for Food Consumer Science: Insights from the COMFOCUS Project (Joep Tummers)</p> | <p>11:00 - 12:30 Workshop - FOAM <i>Room 1336</i></p> <p>- Ontological analysis of FAIR Implementation Profiles (Barbara Magagna, Erik Schultes, Anne Fouilloux, Gerhard Burger, Dirk Devriendt, Robin Bramley, Tobias Kuhn, Joao Moreira, Luiz Olavo Bonino Da Silva Santos and Luis Ferreira Pires)</p> <p>- Agile Interaction Model based ontology development Methodology (AIME) for FAIR European data spaces (Fatma-Zohra Hannou, Lina Nachabe, Marie Jubault, Maxime Lefrançois)</p> <p>- Moving towards FAIR mappings and crosswalks (Jana Martinková, Nick Juty, Alejandra Gonzalez Beltran, Carole Goble and Yann Le Franc)</p> |
| <p>12:30 - 14:00 <i>Technohal Atrium</i></p> | | | | |
| <p>14:00 - 15:30 Workshop - Workshop on the convergence of large language models and ontologies - Session 3: Convergence on Creativity <i>Room 3330</i></p> <p>- Keynote: LLMs, Ontologies, and the Limits of Scaling Barry Smith</p> <p>- CEAR: Creating a Knowledge Graph of Chemical Entities and Roles in Scientific Literature (Stefan Langer, Fabian Neuhaus and Andreas Nürnberger)</p> <p>- OLIVE: Ontology Learning with Integrated Vector Embeddings (Yinglun Zhang, Aryan Dalal, Caleb J Martin, Srikar Reddy Gadusu, Hande Kucuk McGinty)</p> | <p>14:00 - 15:30 Workshop - CAOS8 <i>Room 3138</i></p> <p>- Keynote: Categories & Categorization Alessandra Palmigiano</p> <p>- Closing</p> | <p>14:00 - 15:30 Workshop - KM4LAW <i>Room 3338</i></p> <p>- Workshop keynote - Challenges in Legal Knowledge Representation (Italo Oliveira)</p> <p>- Ontology-based approach in a conversational system: a multidisciplinary research proposal for assisting informal caregivers (Frida Milella, Maria Teresa Ambrosio, Luisa Corazza and Stefania Bandini)</p> <p>- Unveiling Themes in Judicial Proceedings: A Cross-Country Study Using Topic Modeling on Legal Documents from India and the UK (Krish Didwania, Dr.Durga Toshniwal and Amit Agarwal)</p> | <p>14:00 - 15:30 Workshop - IFOW 2024 <i>Room 2275</i></p> <p>Session: LLM/ChatGPT and its role in ontology development and database/knowledge graph search Session chairs: Damion Dooley and Andrea Borghini</p> <p>- ChatWikiFCD: Nutritional Data Integrity in Complex Language Model Applications: Harnessing the WikiFCD Knowledge Graph for AI Self-Verification Across Multilingual Food Composition Tables to Enrich Accuracy within Software Systems and AI-Enabled Interfaces (Katherine Thornton)</p> <p>- Building FKG.in: a knowledge graph for Indian food (Lipika Dey)</p> | <p>14:00 - 15:30 Workshop - FOAM <i>Room 1336</i></p> <p>- Ontology Engineering and the FAIR principles: A Gap Analysis (Maria Poveda-Villalón, Daniel Garajo, Alejandra Gonzalez-Beltran, Clement Jonquet and Yann le Franc)</p> <p>- Grounding a HyperOntology on mCODE Ontological Conceptual Model and Foundational Ontologies for Semantic Interoperability in the Ontology Domain (Mirna El Ghosh, Christel Daniel, Catherine Duclos, Varvara Kalokyri, Jean Charlet, Melanie Sambres, Gianna Tsakou, Manolis Tsiknakis and Ferdinand Dhombres)</p> <p>- An evaluation of semantic artefacts diversity in environmental sciences (Cristina Di Muri, Martina Pulieri, Davide Raho, Alexandra N. Muresan, Andrea Tarallo, Jessica Titocci, Enrica Nestola, Alberto Basset, Sabrina Mazzoni and Ilaria Rosati)</p> |
| <p>15:30 - 16:00 <i>Technohal Atrium</i></p> | | | | |
| <p>16:00 - 17:30 Workshop - Workshop on the convergence of large language models and ontologies - Session 4: Convergence on Ethics <i>Room 3330</i></p> <p>- Keynote: Building Trust in AI Jeremy Ravenel</p> <p>- Keynote: Full Stack Explainable AI Beth Rudden</p> | <p>16:00 - 17:30 Workshop - FOUST VIII <i>Room 3138</i></p> <p>- Being apt to and the Puzzle of Uniqueness (Riccardo Baratella)</p> <p>- Ontological Modeling of Events Based on the Notion of Systems (Fabrício H. Rodrigues, Joel Luis Carbonera and Mara Abel)</p> <p>- Workshop panel - From Events to Processes and back Panelists: Nicola Guarino, Riccardo Baratella, Riichiro Mizoguchi, Frank Loebe Panel host: Giancarlo Guizzardi</p> | <p>16:00 - 17:30 Workshop - KM4LAW <i>Room 3338</i></p> <p>- An ontology for legal reasoning on data sharing and processing between law enforcement agencies (Jeremy Bouche-Pillon, Nathalie Aussenac-Gilles, Yannick Chevalier and Pascale Zaraté)</p> <p>- Exploring Usability in Regulatory Information Extraction Process (Antoine Sacré, Jean-Noel Colin and Benoit Hosselet)</p> <p>- Multilingual Logical English for Double Taxation Conventions (Giuseppe Contissa, Galileo Sartor and Alessia Fidelangeli)</p> | <p>16:00 - 17:30 Workshop - IFOW 2024 <i>Room 2275</i></p> <p>Session: Food Safety Session chair: Michaela Kumpel</p> <p>- Food Safety Hazards and Processes Ontology – Design Knowledge Rules Processes (Sander van Leeuwen)</p> <p>- Formalizing food safety hazard information (Zuzanna Fendor)</p> | <p>16:00 - 17:30 Workshop - FOAM <i>Room 1336</i></p> <p>- Round table</p> <p>- Closing</p> |
| <p>18:00 - 20:00 Reception <i>Technohal Atrium</i></p> | | | | |

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|---|---|--|---|--|--|
| <p>08:30 - 09:30 Early career symposium breakfast <i>Lemons & Beans (Technohal floor 1)</i></p> | | | | | |
| <p>09:00 - 09:30 Registration <i>Technohal Atrium</i></p> | | | | | |
| <p>09:30 - 10:30 Keynote - Constructional ontology and criteria of identity Keynote speaker: Oystein Linnebo Chair: Daniele Porello <i>Room 3330</i></p> | | | | | |
| COFFEE BREAK | | | | | |
| <i>Technohal Atrium</i> | | | | | |
| <p>10:30 - 11:00 11:00 - 12:30 Workshop - FOUST VIII <i>Room 3330</i></p> <p>- Workshop keynote - Introduction to Constructional Ontology (Salvatore Florio)</p> <p>- Taking a constructional turn to radically enrich a top ontology's foundation: a case history (Chris Partridge, Andrew Mitchell, Sergio de Cesare, Andreas Cola, Mesbah Khan, Justin Price and Alexander Hierl)</p> | <p>11:00 - 12:30 Workshop - Semantic Shields I <i>Room 3138</i></p> <p>- Short opening</p> <p>- Workshop invited talk - Interoperability Efforts in the Cyber Domain Ontology (Alexander Nelson)</p> <p>- Workshop interactive panel - Cybersecurity Challenges and Semantic Solutions Panelists: Gal Engelberg, Jair Cardoso de Santanna, Avi Shaked</p> | COFFEE BREAK | | <p>11:00 - 12:30 Workshop - FOMI <i>Room 2275</i></p> <p>- FOMI workshop introduction (Anna Fensel, Francesco Compagno, Walter Terkaj)</p> <p>- Foundations for Digital Twins (Regina Hurley, Daniel Maxwell, John McLellan, Finn Wilson and John Beverley)</p> <p>- Developing an ontology-based system for retrieving and contextualizing petroleum production data (Fabrício H. Rodrigues, Marcos T. Leipnitz, Haroldo R. S. Silva, Rafael H. Petry, Nicolau Santos, Régis K. Romeu, Mara Abel and João Netto)</p> <p>- Interoperability in petroleum production plants: A case study on the DEXPI P&ID specification (Rafael H. Petry, Nicolau O. Santos, Fabrício H. Rodrigues, Haroldo R. S. Silva, Régis K. Romeu, Mara Abel and João C. Netto)</p> <p>- Intelligent system for anomaly detection and decision-making support based on Semantic Web Technologies in manufacturing processes in Aerospace Industry (Murillo Skrzek, Matheus Herman Bernardim Andrade, Leonardo Cavalcanti Hernandez, Anderson Luis Szejka and Fernando Mas)</p> <p>- Workshop discussion session</p> | <p>11:00 - 12:30 Workshop - OK4I <i>Room 1336</i></p> <p>- The Cybersecurity Ontology Network: the first building block for a comprehensive Cybersecurity Knowledge Graph (Mikel Egaña Aranguren et al)</p> <p>- Ontology Network for the Standardization of the EU CBAM report data (Astrid Duque et al)</p> <p>- General Discussion</p> |
| LUNCH BREAK | | | | | |
| <i>Technohal Atrium</i> | | | | | |
| <p>12:30 - 14:00 14:00 - 15:30 Workshop - FOUST VIII <i>Room 3330</i></p> <p>- Constructional Ontologies. Metaphysical Dependence and its Puzzles (Jacopo Berneri)</p> <p>- The Mereology of Concepts: Preliminary Explorations (Guendalina Righetti)</p> <p>- Building an Ontology of Computational Complexity (Anton Gnatenko, Oliver Kutz and Nicolas Troquard)</p> | <p>14:00 - 15:30 Workshop - Semantic Shields I <i>Room 3138</i></p> <p>- Conceptual Modeling to Advance Agrifood Cybersecurity Ontologies (Richard Hull, Matt Bishop, Karl Levitt, Mohammad Sadoghi and Matthew Lange)</p> <p>- A Conceptual Model and Simulation Model for Phishing (Gerd Wagner)</p> <p>- An integrative security modelling environment (Avi Shaked)</p> <p>- Towards a Cyber Information Ontology (David Limbaugh, Mark Jensen and John Beverley)</p> <p>- A Meta-Ontological Approach to Securing the Semantic Web Data (Giampaolo Bella, Domenico Cantone, Gianpietro Castiglione, Marianna Nicolosi-Asmundo and Daniele Francesco Santamaria)</p> <p>- Ontology-Driven Cybersecurity Learning Factory: A Use Case for Securing Electricity Utilities (Zubeida Dawood and Matshidiso Marengwa)</p> | <p>11:00 - 12:30 Workshop - YODA <i>Room 3130</i></p> <p>- Wittgenstein Ontology: Representing the Philosophical Content of Wittgenstein's Nachlass (Jakub Gomułka)</p> <p>- Texts and Works: Ontology-based Modeling Patterns (Emilio M. Sanfilippo, Laura Antonietti and Elena Pierazzo)</p> <p>- On the Choice of Vocabularies for Archival Data (Veruska Zamborlini, Leon van Wissen, Albert Meroño-Peñuela and Charles van den Heuvel)</p> <p>- Refining Predicates for Relation Extraction through Thesaurus Integration (Ewan Hannaford, Youcef Benkhedda, Marc Alexander, Goran Nenadic and Riza Batista-Navarro)</p> <p>- TAO: a document- and person-centric ontology for storing rich metadata of manuscripts (Luiz Do Valle Miranda, Jakub Gomułka, Krzysztof Kutt and Grzegorz J. Nalepa)</p> <p>- General discussion</p> | <p>14:00 - 15:30 Workshop - Emsusto <i>Room 3338</i></p> <p>- OEOX - A Post-Coordination Extension for the Open Energy Ontology (Nele Köhler, Mirjam Stappel, Christoph Muschner, Lukas Emele, Christian Hofmann and Hannah Förster)</p> <p>- A battery electric vehicle charging infrastructure ontology for interdisciplinary research (Eugenio Salvador Arellano Ruiz, Fabia Miorelli, Niklas Wulff and Carsten Hoyer-Klick)</p> <p>- Developing Interoperable Ontologies for Research Data Management in the Energy Domain (Amanda Wein, Alexandro Steinert, Jan Sören Schwarz, Laura Fuentes-Grau, Zhiyu Pan, Antonello Monti and Astrid Nieße)</p> <p>- Discussion session - Interoperability for Energy-Related Ontologies</p> | <p>14:00 - 15:30 Workshop - FOMI <i>Room 2275</i></p> <p>- Patent Analysis Using an Ontology of Qualities of Inorganic Materials Based on Context-Dependency (Yoshinobu Kitamura, Koki Taniguchi and Shinichi Kato)</p> <p>- Onto4Reuse: Towards an Ontology Reuse Framework for Knowledge-intensive Software Engineering (Joao Moreira, Alex Donkers, Pieter Pauwels, Esra Bektas and Tim van Ee)</p> <p>- Bridge-Concepts: Establishing Harmonized Networks of Ontologies (Francesco Antonio Zaccarini, Arkopaul Sarkar, Emanuele Ghedini and Ilaria Maria Paponetti)</p> <p>- Evaluate the Basic Formal Ontology as a Top-Level Framework for the Interoperability of Pistoia Alliance Ontologies (Giacomo De Colle, Asiyah Yu Lin, Andrey Seleznev and James Egan)</p> <p>- Workshop discussion session</p> | <p>14:00 - 15:30 Workshop - OK4I <i>Room 1336</i></p> <p>- OntoPy: a framework to integrate different file types (Pedro Paulo R. et al)</p> <p>- ApplyOnTop - Approach for Semantic Data Integration Based on Ontop (Mônica R. Azara, José Maria P. Oliveira)</p> <p>- General Discussion</p> |
| COFFEE BREAK | | | | | |
| <i>Technohal Atrium</i> | | | | | |
| <p>15:30 - 16:00 16:00 - 17:30 Workshop - FOUST VIII <i>Room 3330</i></p> <p>- DOLCE in OWL: The Core Theory (Daniele Porello, Laure Vieu, Stefano Borgo, Francesco Compagno, Emilio M. Sanfilippo and Walter Terkaj)</p> <p>- Does Biomimetics Require a Unified Account of Function? (Dilek Yargan and Ludger Jansen)</p> <p>- The Interconnection Between Artifacts and Realizables Entities (Fumiaki Toyoshima, Adrien Barton, Kathrin Koslicki and Olivier Massin)</p> <p>- Artifactual Functions: A Dual, Realizable-Based View (Fumiaki Toyoshima, Adrien Barton, Kathrin Koslicki and Olivier Massin)</p> | | | <p>16:00 - 17:30 Tutorial - Generating ontology conceptualization and pattern libraries with CHOWLK Maria Poveda-Villalón, Raúl García-Castro, and Sergio Carulli-Pérez Chair: John Beverley <i>Room 3338</i></p> | <p>16:00 - 17:30 JOWO Invited Talked - Introduction to RDF-star Speaker: Enrico Franconi Chair: Erik Proper <i>Room 2275</i></p> | |
| <p>18:00 - 21:00 Visit to Grolsch Brewery <i>Grolsch Brewery</i></p> | | | | | |

WEDNESDAY
17 July

08:30 - 09:00
Registration
Technohal Atrium

09:00 - 09:30
FOIS welcome session
Room 3330

09:30 - 10:30
Keynote - Ontologies for machine learning
Keynote speaker: Frank van Harmelen
Chair: Cassia Trojan
Room 3330

10:30 - 11:00

COFFEE BREAK

Technohal Atrium

11:00 - 12:30
Ontology showcase
Room 3330

Session chair: Laura Daniele

- **(Meta)data for Official Governmental Information: The TOOI Ontology and Knowledge Graph** (Jan Voskuil, Marc van Opijnen, Hans Overbeek, Theun Fleer and Wessel Schollmeijer)

- **Extending the Common Greenhouse Ontology with Incident Reporting from Autonomous Systems** (Tim Eichhorn, Ghusen Chalan, Simon van Roozendaal, Jens Reil, Tim van Ee, João Moreira and Tiago Prince Sales)

- **Domain Reference Ontology for Design Science Research Knowledge Bases** (Jean Paul Sebastian Piest, Victor Benoiston Jales de Oliveira, Patrício de Alencar Silva and Manoel Ricardo da Cunha Junior)

11:00 - 12:30
Workshop - ST4DM
Room 3138

- **Workshop keynote - Metamodeling and Metaquerying in Lightweight Ontology Languages**
Workshop keynote speaker: Antonella Poggi

- **Improving the Cost of Updates in Virtual Knowledge Graphs**
(Romuald Esdras Wandji and Diego Calvanese)

11:00 - 12:30
Workshop - Playing with Meanings
Room 3338

- **Type and Token Ontological Foundational Game**

11:00 - 12:30
Workshop - OntoCom X
Room 2275

- **Introduction**

- **Ontological Issues in Conceptual Simulation Modeling** (Gerd Wagner)

- **LegiOn-IDS: Legal Interoperability Ontology for International Data Spaces** (Victor Oliveira, Patrício Alencar and João Moreira)

- **Middle Architecture Criteria** (Giacomo De Colle, Mark Jensen, Carter-Beau Benson, John Beverley and Barry Smith)

- **Capabilities** (John Beverley, Barry Smith, David Limbaugh and Peter Koch)

11:00 - 12:30
Early career symposium
Chair: Pedro Paulo F. Barcelos
Room 1336

- **Understanding quantities in geo-information in terms of amounts, magnitudes, extents, and intents** (Eric Top)

- **Next Generation Cross-Sectoral Data Platform for the Agri-food Sector** (Donika Xhani)

- **Future-proofing PhD funding for the VUCA world** (Dana Malcova)

- **An Ontology-Based Framework to Provide Legal Interoperability Within International Data Spaces** (Victor Oliveira)

- **Navigating Digital Transformation and Decentralization in Digital Business Ecosystems** (Isaac Da Silva Torres)

12:30 - 14:00

LUNCH BREAK

Technohal Atrium

14:00 - 15:30
Ontology showcase
Room 3330

Session chair: João Paulo A. Almeida

- **The HIP Ontology: a formal framework to support disaster risk reduction and management** (Shirly Stephen, Mark Schildhauer, Krzysztof Janowicz, Kitty Currier, Pascal Hitzler, Cogan Shimizu, Colby Fisher and Dean Rehberger)

- **Discussion: How to showcase your ontology to the world?** (Luiz Olavo Bonino, Laura Daniele, João Paulo A. Almeida)

14:00 - 15:30
Workshop - ST4DM
Room 3138

- **Ontology-driven Data Management Design in Health-Care Domain. The ADCATER Experience** (Leonardo Cocco, Paolo Fantozzi, Domenico Lembo, Umbero Nanni and Federico Scafoglieri)

- **Integrating Multiple Knowledge Graphs in Digital Humanities** (Alberto Morvillo and Massimo Mecella)

- **Implementing Controlled Query Evaluation in OBDA** (Divya Baura, Diego Calvanese and Lorenzo Marconi)

14:00 - 15:30
Workshop - Playing with Meanings
Room 3338

- **Risk Response Adversarial Collaborative Modelling Game**

14:00 - 15:30
Workshop - OntoCom X
Room 2275

- **Workshop keynote - Understanding the Variety of Domain Models: Views, programs, animations, and other models** (Henderik Proper)

14:00 - 15:30
Early career symposium
Chair: João Luiz Rabelo Moreira
Room 1336

- **Diversifying world agriculture - a common framework for crop data comparison** (Agnes Aboagyé)

- **Knowledge formalization for 3D geological modeling** (Imadeddine Laouici)

- **Representing cyberspace with the Basic Formal Ontology** (Giacomo De Colle)

- **Leveraging LLMs in text-based ontology-driven conceptual modeling** (Matheus Lenke Coutinho)

15:30 - 16:00

COFFEE BREAK

Technohal Atrium

16:00 - 17:00
Industrial Panel - Digital transformation with ontologies: Enterprise cases of success
Panelists: Laura Daniele, Quirien Wijnands, Ivo Velitchkov, and Wouter Franke
Hosts: Jan Voskuil and Mara Abel
Room 3330

17:00 - 17:30
Poster Pitches
Chair: Faiza Bukhsh
Room 3330

18:00 - 21:00
Food Market
Waaier Restaurant

FOIS Poster Session
Waaier Restaurant

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|---|--|---|
| <p>08:30 - 09:00 Registration <i>Technohal Atrium</i></p> | | |
| <p>09:00 - 09:30 ICBO welcome session <i>Room 3330</i></p> | | |
| <p>09:30 - 10:30 Keynote - The future of health AI: Is our knowledge infrastructure up to the task? Keynote speaker: Michel Dumontier Chair: Robert Hoehndorf <i>Room 3330</i></p> | | |
| <p>10:30 - 11:00 <i>Technohal Atrium</i> COFFEE BREAK</p> | | |
| <p>11:00 - 12:30 FOIS Session: Ontological Analysis Chair: Gerd Wagner <i>Room 3330</i></p> <p>- Ontological Analysis of Money (Riichiro Mizoguchi, Stefano Borgo and Yoshinobu Kitamura) - Best Paper Candidate - Main Track</p> <p>- Ontological Analysis of Malfunctions: Some Formal Considerations (Francesco Compagno and Stefano Borgo) - Main Track</p> <p>- Unpacking the Semantics of Risk in Climate Change Discourses (Greta Adamo, Anna Sperotto, Mattia Fumagalli, Alessandro Mosca, Tiago Prince Sales and Giancarlo Guizzardi) - Main Track</p> | <p>11:00 - 12:30 FOIS Session: Meaning, Interpretation and Truth Chair: Frank Loebe <i>Room 3338</i></p> <p>- Facts in the Machine: Systems of Record and the Performance of Sociotechnical Truth (Elliott Hauser) - Journal First Track</p> <p>- Ontology as Structure, Domain and Definition (Brandon Bennett and Giulia Sindoni) - Main Track</p> <p>- Interpreting Texts and Their Characters (Emilio M. Sanfilippo, Claudio Masolo, Emanuele Bottazzi and Roberta Ferrario) - Best Paper Candidate - Main Track</p> | <p>11:00 - 11:30 ICBO session <i>Room 3138</i></p> <p>- Semantic Representation of Preclinical Data in Radiation Oncology (Olga Giraldo)</p> <p>11:30 - 12:15 ICBO Poster flash talks <i>Room 3138</i></p> <p>12:15 - 12:30 ICBO Poster session (continues through lunch) <i>Technohal Atrium</i></p> |
| <p>12:30 - 14:00 <i>Technohal Atrium</i> LUNCH BREAK</p> | | |
| <p>14:00 - 15:30 FOIS Session: Domain and Core Ontologies Chair: João Paulo Almeida <i>Room 3330</i></p> <p>- OnNER: An Ontology for Semantic Representation of Named Entities in Scholarly Publications (Umayer Reza, Xuelian Zhang and Torsten Hahmann) - Main Track</p> <p>- The Common Core Ontologies (Mark Jensen, Giacomo De Colle, Sean Kindya, Cameron More, Alex Cox and John Beverley) - Main Track</p> <p>- Representing Energy in the Midlevel Energy Ontology (MENO) (Mirjam Stappel and Fabian Neuhaus) - Main Track</p> | <p>14:00 - 15:30 FOIS Session: Foundational Ontologies Chair: Nicola Guarino <i>Room 3338</i></p> <p>- To Be More Concrete About Abstracta and Concreta (Fumiaki Toyoshima and Satoru Niki) - Main Track</p> <p>- GFO: The General Formal Ontology (Frank Loebe, Patryk Burek and Heinrich Herre) - Journal First Track</p> <p>- Large Language Models and Foundational Ontologies (Pawel Garbacz) - Main Track</p> | <p>12:30 - 14:00 Early Career Symposium - Mentoring lunch <i>Technohal Atrium</i></p> <p>14:00 - 14:30 ICBO Poster session (continuation) <i>Technohal Atrium</i></p> <p>14:30 - 15:30 ICBO session <i>Room 3138</i></p> <p>- Expanding the Ontology of Organizational Structures of Trauma Centers and Trauma Systems (Mathias Brochhausen, Diya Mehta, Justin Whorton, Reza Shahriari, Eric D Ragan, Jonathan Bona, William Hogan, Kevin Sexton)</p> <p>- Modeling Biomedical Burdens in Basic Formal Ontology (Paul R Smart , Nic Fair, Michael Boniface)</p> |
| <p>15:30 - 16:00 <i>Technohal Atrium</i> COFFEE BREAK</p> | | |
| <p>16:00 - 17:00 Keynote - Where to locate the explainability of explainable machine learning? Keynote speaker: Mieke Boon Chair: Giancarlo Guizzardi <i>Room 3330</i></p> | | |
| <p>17:00 - 18:00 Panel - Ontologies, creativity and AI Panelists: Maria Hedblom, Guendalina Righetti, Shenghui Wang, and Greta Adamo Panel host: Renata Guizzardi <i>Room 3330</i></p> | | |
| <p>19:00 - 22:00 Conference dinner <i>UParkHotel</i></p> | | |

09:00 - 09:30

Registration

Technohal Atrium

09:30 - 10:30

Keynote - Stop Data Sharing

Keynote speaker: Barend Mons

Chair: Luiz Olavo Bonino

Room 3330

10:30 - 11:00

COFFEE BREAK

Technohal Atrium

11:00 - 12:30

FOIS Session: Cognition, Competence and Intentionality

Chair: Oliver Kutz

Room 3330

- **Hanging Around: Cognitive Inspired Reasoning for Reactive Robotics** (Mihai Pomarlan, Stefano De Giorgis, Rachel Ringe, Nikolaos Tsiogkas and Maria M. Hedblom) - **Main Track**

- **Hybrid Collective Intentionality** (Thomas Brouwer, Roberta Ferrario and Daniele Porello) - **Journal First Track**

- **Core-O: A Competence Reference Ontology for Professional and Learning Ecosystems** (Rodrigo F. Calhau, João Paulo A. Almeida, Tiago P. Sales, Pedro Paulo F. Barcelos and Giancarlo Guizzardi) - **Main Track**

11:00 - 12:30

FOIS Session: Ontology Applications

Chair: Fabian Neuhaus

Room 3338

- **Towards Semantic Interoperability among Heterogeneous Cancer Image Data Models using a Layered Modular Hyperontology** (Mirna El Ghosh, Varvara Kalokyri, Mélanie Sambres, Morgan Vaterkowski, Catherine Duclos, Xavier Tannier, Manolis Tsiknakis, Christel Daniel and Ferdinand Dhombres) - **Main Track**

- **The Semantics of Extensive Quantities Within Geographic Information** (Eric Top, Simon Scheider, Haiqi Xu, Enkhbold Nyamsuren and Niels Steenbergen) - **Journal First Track**

- **XMLPO: An Ontology for Explainable Machine Learning Pipeline** (Donika Xhani, Joao Luiz Rebelo Moreira, Marten van Sinderen and Luis Ferreira Pires) - **Main Track**

11:00 - 12:30

ICBO session

Room 3138

- **Credentials in the Occupation Ontology** (John Beverley, Robin McGill, Sam Smith, Jie Zheng, Bill Duncan, Matt Diller, Giacomo De Colle, Finn Wilson, William Hogan, Yongqun He)

- **(Re-)bridging the anatomy ontologies with SSSOM** (Damien Goutte-Gattat, Nicolas Matentzoglou)

- **Grounding Realizable Entities** (Michael Rabenberg, Carter Benson, Federico Donato, Yongqun He, Anthony Huffman, Shane Babcock, John Beverley)

12:30 - 14:00

LUNCH BREAK

Technohal Atrium

14:00 - 15:30

FOIS Session: Ontology Engineering

Chair: Pawel Garbacz

Room 3330

- **A Textual Syntax and Toolset for Well-Founded Ontologies** (Matheus L. Coutinho, João Paulo Almeida, Tiago Prince Sales and Giancarlo Guizzardi) - **Main Track**

- **Ontology Pattern Substitution: Toward Their Use for Domain Ontologies** (William Leighton Dawson and C. Maria Keet) - **Demonstrations Track**

- **The Illusionary Goal of Automating Ontology Development - with or without Large Language Models** (Fabian Neuhaus and Janna Hastings) - **Journal First Track**

14:00 - 15:30

FOIS Session: Theoretical Issues

Chair: TBD

Room 3338

- **Analytic Metaphysics Versus Naturalized Metaphysics: The Relevance of Applied Ontology** (Baptiste Le Bihan and Adrien Barton) - **Journal First Track**

- **Meaning Holism and Indeterminacy of Reference in Ontologies** (Adrien Barton, Paul Fabry and Jean-Francois Ethier) - **Best Paper Candidate - Main Track**

14:00 - 15:30

ICBO session

Room 3138

- **Exploring the Evolution of the Gene Ontology and its Impact on Enrichment Analysis** (Yi Chen, Frank Takes, Fons J Verbeek, Katherine Wolstencroft)

- **Concretizing Plan Specifications as Realizables within the OBO Foundry** (William D Duncan, Matthew Diller, Damion Dooley, William R Hogan, John Beverly)

- **Empowering Standardization of Cancer Vaccines through Ontology: Enhanced modeling and data analysis** (Jie Zheng et al.)

15:30 - 16:00

COFFEE BREAK

Technohal Atrium

16:00 - 17:00

IAOA Plenary Session

17:00 - 17:30

FOIS and JOWO closing session

Room 3330

16:00 - 17:30

ICBO session

Room 3138

- **Community plenary discussion - Future ICBO, topics, and organization**
Hosts: Bill Duncan and Asiyah Lin

17:30 - 18:00

ICBO closing session

Room 3138