CAiSE 2023 – Program at a Glance

Monday June 12	Tuesday June 13	Wednesday June 14	Thursday June 15	Friday June 16
8:00 – 9:00 Registration (Hall – Congress Palace)	8:00 – 9:00 Registration (<i>Hall</i> – <i>Congress</i> <i>Palace</i>)	8:00 – 9:00 Registration (Hall – Congress Palace)	8:00 – 9:00 Registration (Hall – Congress Palace)	8:00 – 9:00 Registration (Hall – Congress Palace)
 9:00 – 10:30 BPMDS/EMMSAD/ISESL Welcome & Keynote (ROOM 9) HybridAIMS Welcome and Academic Keynotes (ROOM 3) MOBA Session 1 (BRIDGE PAVILION) DGD + BC4IS Session 1 (ROOM 4) 	 9:00 - 10:30 EMMSAD Session 5 (ROOM 5 & 6) BPMDS Session 5 (ROOM 3 & 4) ISESL Keynote (ROOM 7) Agil-ISE Session 1 (ROOM 9) MOBA Session 5 (BRIDGE PAVILION) KG4SDSE Welcome & Keynote (ROOM 8) 	9:00 – 10:30 CAiSE'23 Welcome & Keynote 1 - Prof. Giancarlo Guizzardi. A Meaningful Road to Explanation. (AUDITORIUM)	9:00 – 10:30 Report from the sustainability chairs & Keynote 2 - Bran Selic. Matching Software with Reality. (AUDITORIUM)	9:00 – 10:30 Keynote 3 - Prof. Pnina Soffer. Theory-guided information systems engineering. (AUDITORIUM)
		Coffee break (ROOM C)		
 11:00 – 12:30 EMMSAD Session 2 (ROOM 6) BPMDS Session 2 (ROOM 3) ISESL Opening session (ROOM 7) HybridAIMS Industry Keynote and Session 1 (ROOM 9) MOBA Session 2 (BRIDGE PAVILION) DGD + BC4IS Session 2 (ROOM 4) 	 11:00 – 12:30 EMMSAD Session 6 (ROOM 5 & 6) BPMDS Session 6 (ROOM 3 & 4) ISESL Session 4 (ROOM 7) Agil-ISE Session 2 (ROOM 9) MOBA Session 6 (BRIDGE PAVILION) KG4SDSE Session 1 (ROOM 8) 	 11:00 – 12:30 Session 1 Cyber-human & Cyber Physical Systems (ROOM 3 & 4) Session 2 Event-driven Process Mining (ROOM 5 & 6) Tutorial: Oscar Diaz and Jeremías P. Contell Why is coming up with a Research Question difficult? (ROOM 9) 	 11:00 – 12:30 Session 5 Ontology & Knowledge Representation (ROOM 3 & 4) Session 6 Conformance, Compliance and Workarounds (ROOM 5 & 6) Tutorial: Anthony Wasserman Open-Source Software for Information Systems (ROOM 7 & 8) Doctoral Consortium – Session 1 (ROOM 9) 	 11:00 – 12:30 Session 13 Requirements Engineering (ROOM 3 & 4) Session 14 Service-related Approaches (ROOM 5 & 6) Research Projects Exhibition (ROOM 7 & 8) 12:30 – 13:00 Conference Closing (ROOM 9)
Lunch (ROOM C)	Lunch (ROOM C)	Lunch (ROOM C) & SC meeting (ROOM 7 & 8)	Lunch (ROOM C)	
 14:00 – 15:30 EMMSAD Session 3 (ROOM 5 & 6) BPMDS Session 3 (ROOM 3 & 4) ISESL Session 2 (ROOM 7) HybridAIMS Session 2 (ROOM 9) MOBA Session 3 (BRIDGE PAVILION) 	 14:00 – 15:30 EMMSAD Session 7: Short Research presentations & EMMSAD'23 awards (ROOM 5 & 6) ISESL Panel Session (ROOM 7) MOBA Session 7 (BRIDGE PAVILION) KG4SDSE Session 2 (ROOM 8) 	 14:00 - 15:30 Session 3 IoT (ROOM 3 & 4) Session 4 Process Mining (ROOM 5 & 6) Tutorial: Steven Alter The Work System Perspective (ROOM 9) 	 14:00 - 15:30 Session 7 Model-driven Approaches (ROOM 3 & 4) Session 8 Process Monitoring (ROOM 5 & 6) Session 9 Privacy and Security (ROOM 7 & 8) Doctoral Consortium - Session 2 (ROOM 9) 	
Coffee break (ROOM C)	Coffee break (ROOM C)	15:30 - CAISE Forum Pitches (Room 9) 15:50 - Coffee break & Posters (ROOM C & B)	Coffee break (ROOM C)	
 16:00 – 17:30 EMMSAD Session 4: Panel discussion (ROOM 5 & 6) BPMDS Session 4: Roundtable on the impact of AI on BPM (ROOM 3 & 4) ISESL Session 3 (ROOM 7) HybridAIMS Session 3 (World Café & Closing Session) (ROOM 9) MOBA Session 4 (BRIDGE PAVILION) 	 16:00 – 17:30 IFIP 8.1 & EMEA working group meeting (ROOM 5 & 6) ISESL Session Closing Session (ROOM 7) MOBA Session 8 (BRIDGE PAVILION) KG4SDSE Session Panel Discussion & Conclusions (ROOM 8) 	16:00 – 17:30 Panel: Academic life and career in the 21 st century (AUDITORIUM)	 16:00 – 17:30 Session 10	
	Pre-Conference Events Dinner 17:30 BRIDGE PAVILION	Conference Party 17:30 ALJAFERIA & ALQUERIA	Conference Dinner & CAiSE'23 Awards + CAiSE'24 Presentation 19:00 WATER TOWER	

19:00 WATER TOWER

Monday June 12

8:00 - 9:00

Registration. HALL - CONGRESS PALACE

9:00 - 10:30

- EMMSAD & BPMDS & ISESL (Session 1) Welcome and Keynote. Chaired by Dominik Bork and Henderik Proper. ROOM 9
 - o Welcome to EMMSAD 2023.
 - o Keynote: Sjaak Brinkkemper. Situational Al Engineering for Automated Medical Reporting: Architecting and Experimentation in the Care2Report Research Program

HybridAIMS – Welcome and Academic Keynotes. ROOM 3

- o Welcome and introduction from Emanuele Laurenzi.
- Keynote (online): Knut Hinkelmann. Knowledge Matters: The Roles of Domain Knowledge for Creating and Interpreting Enterprise Models.
- Keynote: Giancarlo Guizzardi. Semantic Models for Trustworthy Systems: A Hybrid Intelligence Augmentation Program.

• MOBA (Session 1) - Modelling and Agility. Chaired by Martin Molhanec. BRIDGE PAVILION

- o Introduction and Welcome to MOBA 2023.
- o Boris Ulitin, Eduard Babkin, Tatiana Babkina and Igor Ulitin. Application of an agent-based simulation for a definition of a trade-off retail price promotion strategy.
- DGD + BC4IS (Session 1). Chaired by Victor Amaral de Sousa (BC4IS), Fadime Kaya (DGD) and Geert Poels. ROOM 4
 - Grouped Workshop Introduction (BC4IS + DGD) + Keynote Introduction (BC4IS).
 - o Keynote: Felix Härer. Blockchain Interoperability
 - Paper Presentation 1.
 - Yulu Wang. Blockchain Governance Design A Computer Science Perspective

Coffee break (10:30 - 11:00) - ROOM C

11:00 - 12:30

- EMMSAD (Session 2) Foundations & method engineering. Chaired by Jolita Ralyté. ROOM 6
 - o Roman Lukyanenko, Jeffrey Parsons, Veda C. Storey, Binny M. Samuel and Oscar Pastor. Principles of universal conceptual modeling.
 - Raquel Araújo de Oliveira, Mario Cortes-Cornax and Agnès Front. Supporting Method Creation, Adaptation and Execution with a Low-code Approach.
 - o Cesar Gonzalez-Perez, Martín Pereira-Fariña and Patricia Martín-Rodilla. IAT/ML: A Domain-Specific Approach for Discourse Analysis and Processing.
- BPMDS (Session 2) Al for Business Process Management. Chaired by Rainer Schmidt & Han van der Aa. ROOM 3
 - BPMDS Opening.
 - o Kiran Busch, Alexander Rochlitzer, Diana Sola and Henrik Leopold. Just Tell Me: Prompt Engineering in Business Process Management.
 - o Aaron Friedrich Kurz, Timotheus Kampik, Luise Pufahl and Ingo Weber. Reinforcement Learning-supported AB Testing of Business Process Improvements: An Industry Perspective.
- ISESL (Session 1) ISESL Opening Session. Chaired by Rébecca Deneckère. ROOM 7
 - o Elena Kornyshova, Rébecca Déneckère, Kaoutar Sadouki, Eric Gressier-Soudan, John Murray and Sjaak Brinkkemper. Smart Life and Smart Life Engineering.
 - Yulliwas Ameur and Samia Bouzefrane. Smart Life Privacy: An Overview of Current Strategies and Future Directions.
 - o Lucas Mohimont, Lilian Hollard and Luiz Angelo Steffenel. Smart-Viticulture and Deep Learning: Challenges and Recent Developments on Yield Prediction.
 - o Mohamed Amine Boudia, Philippe Roose and Sébastien Laborie. Smart city: Road flow management: An adaptation of K-means for Smart Controller Traffic Lights.

• HybridAIMS (Session 1) - Industry Keynote and Session 1 - Position Papers. Chaired by Hans-Friederich Witschel (online). ROOM 9

- o Industry Keynote: Evgeny Kharmalov. Neuro-Symbolic AI for Industry 4.0.
- o Fabian Baumann, Knut Hinkelmann and Devid Montecchiari. Supporting Reuse of Business Process Models by Semantic Annotation.
- o Stella Gatziu Grivas and Denis Imhof. Hybrid Artificial Intelligence for Realizing a Leadership Assistant for Platform-Based Digital Leadership Consulting.
- Philipp Fukas, Aydin Bozkurt, Nora Lenz and Oliver Thomas. Developing a Maturity Assessment Tool to Enable the Management of Artificial Intelligence for Organizations.

• MOBA (Session 2) - Modelling and Agility. Chaired by Martin Molhanec. BRIDGE PAVILION

- Josef Pavlicek. Business process models (BPMN and DEMO notation) Usability study.
- o Matej Brnka, Petra Pavlickova and Jan Rydval. ANP Model as a Support to Decide the Project Management Style.
- DGD + BC4IS (Session 2). Chaired by Geert Poels and Victor Amaral de Sousa. ROOM 4
 - o PhD Presentation. Fadime Kaya. DECENT a domain specific language to design Blockchain governance.
 - o Paper Presentation 2. Lei Xu, Yuewei Zhang and Liehuang Zhu. Regulation-Friendly Privacy-Preserving Blockchain Based on zk-SNARK
 - o Paper Presentation 3. Simona Ramos. The MEV Saga: Can Regulation Illuminate the Dark Forest?
 - \circ Quick wrap-up of the workshops.

Lunch (12:30 - 14:00) - ROOM C

Monday June 12

14:00 - 15:30

- EMMSAD (Session 3) Enterprise architecture & transformation. Chaired by Istvan David. ROOM 5 & 6
 - Simon Hacks and Jürgen Jung. A First Validation of the Enterprise Architecture Debts Concept.
 - Description Somers, Fabien Dagnat and Jean-Christophe Bach. Modeling heterogeneous IT infrastructures: a collaborative component-oriented approach.
 - Jonas Van Riel, Geert Poels and Stijn Viaene. Exploring Capability Mapping as a Tool for Digital Transformation: Insights from a Case Study.

• BPMDS (Session 3) - Modeling and Transforming Process Data. Chaired by Henrik Leopold. ROOM 3 & 4

- o Andreas Fritsch, Selina Schüler, Martin Forell and Andreas Oberweis. Modelling and Execution of Data-Driven Processes with JSON-Nets.
- Alexandre Goossens, Charlotte Verbruggen, Johannes De Smedt. Jan Vanthienen and Monique Snoeck. Aligning object-centric event logs with data-centric conceptual models.
- o Moshe Hadad, Gal Engelberg and Pnina Soffer. From Network Traffic Data to a business-level Event Log.

• ISESL (Session 2) – Smart Environments. Chaired by John Murray. ROOM 7

- o Lieve Heyrman, Tim Guily, Rebecca Deneckere, Elena Kornyshova and Ramona Elali. Leuven: a Smart City Experience.
- o Sjaak Brinkkemper. Conversational Applications in Healthcare.

HybridAIMS (Session 2) – Full Papers. Chaired by Giancarlo Guizzardi. ROOM 9

- o Frederik Fonger, Milda Aleknonyte-Resch and Agnes Koschmider. Mapping Time-Series Data on Process Patterns to Generate Synthetic Data.
- Jack Daniel Rittelmeyer and Kurt Sandkuhl. Morphological Box for Al Solutions: Development, Evaluation and Application Options.
- Valeriia Afonina, Knut Hinkelmann and Devid Montecchiari. Enriching Enterprise Architecture Models with Healthcare Domain Knowledge.

• MOBA (Session 3) - Innovations and Agility. Chaired by Vojtěch Merunka. BRIDGE PAVILION

- o Keynote: Joseph Barjis. Enterprise Agile Transformation Using a System Approach
- o Konstantinos Tsilionis, Yves Wautelet, Lena Truyers and Yan Ding. Strategic Agility in Practice: Experts' Opinions on the Applicability of a Model-Driven Framework.

Coffee break (15:30 - 16:00) - ROOM C

16:00 - 17:30

EMMSAD (Session 4) – Panel discussion. Chaired by Henderik Proper. ROOM 5 & 6

- o The Role of Modeling in the Analysis and the Design of Sustainable Systems.
- o Panelists:
 - Iris Reinhartz-Berger, University of Haifa, Israel.
 - Istvan David, University of Montreal, Canada.
 - Sergio España, Utrecht University, the Netherlands & Universitat Politècnica de València, Spain.
 - Giancarlo Guizzardi, University of Twente, the Netherlands.
- BPMDS (Session 4) Roundtable on the impact of AI on BPM. Chaired by Rainer Schmidt. ROOM 3 & 4

• ISESL (Session 3) – Smart Users and Artefacts. Chaired by Elena Kornyshova. ROOM 7

- o António Galvão, Fernando Brito E Abreu and João Joanaz de Melo. Towards a Consensual Definition for Smart Tourism and Smart Tourism Tools.
- o Kai Jacobs. Stakeholders in Smart City Standardisation.
- o Mukesh Chaware and Bibaswan Basu. Applied Robotics and Wearables in Healthcare: Current Trends and Future Directions.

• HybridAIMS (Session 3) - World Café & Closing Session. Chaired by Emanuele Laurenzi. ROOM 9

o Challenge presentation, group formation, group work and pitching session and final discussion.

• MOBA (Session 4) - Innovations and Agility. Chaired by Vojtěch Merunka. BRIDGE PAVILION

o Round-table - Modern ways of modeling bussines processes - methods, tools, thoughts, and ideas.

8:00 - 9:00

Registration. HALL - CONGRESS PALACE

9:00 - 10:30

- EMMSAD (Session 5) Model-driven engineering. Chaired by Jürgen Jung. ROOM 5 & 6
 - Charlotte Verbruggen and Monique Snoeck. TEC-MAP: a Taxonomy of Evaluation Criteria for Multi-Modelling Approaches.
 - o Fabian Muff, Nathalie Spicher and Hans-Georg Fill. Integrating Physical, Digital, and Virtual Modeling Environments in a Collaborative Design Thinking Tool.
 - Istvan David, Vasco Sousa and Eugene Syriani. Opportunities in Robotic Process Automation by and for Model-Driven Software Engineering.
- BPMDS (Session 5) Decision and Context-aware Business Process Management. Chaired by Pnina Soffer. ROOM 3 & 4
 - o Pietro Portolani, Diego Savoia, Andrea Ballarino and Matteo Matteucc. A Novel Decision Mining Method Considering Multiple Model Paths.
 - o Yusuf Kirikkayis, Florian Gallik and Manfred Reichert. Modeling, Executing and Monitoring IoT-Driven Business Rules.
 - o Leo Poss and Stefan Schönig. A Generic Approach towards Location-aware Business Process Execution.
- ISESL (Session 4). Chaired by Sjaak Brinkkemper. ROOM 7
 - o Keynote: Breogan Sanchez. Smart City Zaragoza.
- Agil-ISE (Session 1). Chaired by Geert Poels, Palash Bera, Yves Wautelet. ROOM 9
 - o Welcome.
 - o Keynote: Maya Daneva. Lessons Learned from 15 Years of Empirical Research on Agile and DevOps.
 - o Wasim Alsaqaf, Maya Daneva and Roel Wieringa. Towards a Solution Proposal to Agile Quality Requirements Challenges in Large-scale Projects.
 - o Soreangsev Kiv. Socio-Intentional Framework for Agile Methods Tailoring: Past, Present, and Future.
- MOBA (Session 5) Modelling and Agility. Chaired by Boris Ulitin. BRIDGE PAVILION
 - o Adela Hamplova and David Franc. Character segmentation in the development of Palmyrene Aramaic OCR.
 - o Nicolai Schützenmeier, Stefan Jablonski, Martin Käppel and Lars Ackermann. Comparing Imperative and Declarative Process Models.
- KG4SDSE Welcome & Keynote. ROOM 8
 - o Welcome Message, Robert Buchmann.
 - o Keynote: Nicolas Spyratos. A Graph Data Model for Data Analytics and Information Integration.

Coffee break (10:30 - 11:00) - ROOM C

11:00 - 12:30

- EMMSAD (Session 6) Visualization & process modeling. Chaired by Iris Reinhartz-Berger. ROOM 5 & 6
 - o Tong Li, Xiang Wei and Yiting Wang. A Requirements-Driven Framework for Automatic Data Visualization.
 - o Felix Cammaerts and Monique Snoeck. Comparing different visualizations for feedback on test execution in a Model-Driven Engineering environment.
 - o Tsung-Hao Huang and Wil M. P. van der Aalst. Unblocking Inductive Miner While Preserving Desirable Properties.
- BPMDS (Session 6) Modeling Temporal and Behavioral Process Constraints. Chaired by Stefan Schönig. ROOM 3 & 4
 - o Josef Lubas and Johann Eder. Time-aware Contract Model for Legal Smart Contracts.
 - o Nicolai Schützenmeier, Carl Corea, Patrick Delfmann and Stefan Jablonski. Efficient Computation of Behavioral Changes in Declarative Process Models.
 - o *Kerstin Andree, Dorina Bano and Mathias Weske.* Beyond Temporal Dependency: An Ontology-Based Approach to Modeling Causal Structures in Business Processes.
- ISESL (Session 5) User Experience in Smart Life Applications. Chaired by Angelo Steffenel. ROOM 7
 - o Tomas Santos, Rui Neto Marinheiro and Fernando Brito E Abreu. Making Tourists Experience Smarter by Mitigating Overtourism.
 - o Tarmo Robal, Uljana Reinsalu. How Do You Ride an Elevator? Passenger In-Cabin Behaviour Analysis on a Smart-Elevator Platform.
 - o Carlos Portugal, David Vaz, Miguel Sales Dias, Alcina Prata, Fernando Brito E Abreu, Pedro Trocado. Enhancing the Visitor Experience with Immersive Technologies and Gaming: the Monserrate Use Case.
 - o John Murray. A Review of Some Key Social, Behavioural, and Ethical Considerations for Smarter Life Engineering
- Agil-ISE (Session 2). Chaired by Geert Poels, Palash Bera, Yves Wautelet. ROOM 9
 - o Thoby Visser and Joris Hulstijn. Measuring Agile/DevOps team performance.
 - o Jolanta Graudone and Mārīte Kirikova. Systematic Literature Review of Agile Framework Application for IT System Development in Public Sector.
 - o Bert de Brock. Teaching and practising RE for agility.
 - o Closing remarks.
- MOBA (Session 6) Modelling and Agility. Chaired by Boris Ulitin. BRIDGE PAVILION
 - o Martin Molhanec. Deriving Relational Normalisation from Conceptual Normalisation.
 - o Simona Colucci, Francesco M Donini and Eugenio Di Sciascio. On the relevance of explanation for RDF resources similarity.
- KG4SDSE (Session 1). Chaired by Fadime Kaya. ROOM 8
 - o Anne Füßl, Volker Nissen and Stefan Horst Heringklee. Interactive Machine Learning of Knowledge Graph-based Explainable Process Analysis.
 - o Bram Bazuin, Sander Stolk and Marco Stevens. Towards Recommendations for Knowledge-graph-based Requirements Management in Construction: a Report on the EU DigiChecks Project.
 - o Alexander Völz, Danial M. Amlashi and Moonkun Lee. Semantic Matching through Knowledge Graphs: A Smart City Case.
 - o Jolanta Graudone and Marite Kirikova. A Weighted Knowledge Graph for Representing the Results of a Systemic Literature Review.
 - o R. E. Kurt Stirewalt and Márton Búr. The RAI Way: A Technical Analysis and Design Method for Building Enterprise Semantic Layers.

Tuesday June 13

14:00 - 15:30

- EMMSAD (Session 7) Short Research presentations & EMMSAD'23 awards. Chaired by Dominik Bork and Henderik Proper. ROOM 5 & 6
- ISESL Panel Session. Chaired by Rébecca Deneckère and Elena Kornyshova. ROOM 7
 - o Architecting Smart Life.
 - o Panelists:
 - Sjaak Brinkkemper.
 - John Murray.
 - Angelo Steffenel.
- MOBA (Session 7) Modelling and Agility. Chaired by Josef Pavlíček. BRIDGE PAVILION
 - Vojtech Merunka, Himesha Wijekoon and Boris Schegolev. Transformation of Class Hierarchies during Agile Software Development in UML.
 - Doctorand Consortium I.
 - Dmitriy Uraev. Designing Formal Representation of Heterogeneous XML Documents Collection for Intra-Enterprise Usage.
 - Supervisor: Pavel Malyzhenkov.
- KG4SDSE (Session 2). Chaired by Alexander Völz. ROOM 8
 - o Ştefan Uifălean. Employing Knowledge Graphs for Capturing Semantic Aspects of Robotic Process Automation.
 - Angelo Fiorentino, Fadime Kaya and Paul Johannesson. Knowledge Engineering Formalizing DECENT Metamodel.
 - o Amin Anjomshoaa, Hannah Schuster, Johannes Wachs and Axel Polleres. Towards Crisis Response and Intervention using Knowledge Graphs CRISP Case Study.
 - Andreas Andreou, Donatella Firmani, Jerin George Mathew, Massimo Mecella and Michalis Pingos. Using Knowledge Graphs for Record Linkage: Challenges and Opportunities.
 - o Newres Al Haider, Keng Ng, Ali Hashmi, Lauma Veidemane and Diederik Schut. A Linked Data Based Advanced Credit Rationale.

Coffee break (15:30 - 16:00) - ROOM C

16:00 - 17:30

- IFIP 8.1 & EMEA working group meeting. Chaired by Janis Stirna and Henderik Proper. ROOM 5 & 6
- ISESL Closing Session. Chaired by Sjaak Brinkkemper. ROOM 7
 - o Discussion on cross-cutting concerns and future activities
- MOBA (Session 8) Modelling and Agility. Chaired by Josef Pavlíček. BRIDGE PAVILION
 - o Doctorand Consortium II.
 - Polina Busygina. Design and Comparative Study of Simulation Models of Inquiring Systems.
 - Sergey Anisimov. Influence of Automation of Rolling Stock Repair on the Model of Railway Enterprise Architecture
 - Supervisor: Pavel Malyzhenkov.
 - \circ Closing of MOBA 2023.
- KG4SDSE Panel Discussion & Conclusions. ROOM 8
 - o Expectations from Large Language Models and Deep Learning for Semantics-driven Systems Engineering
 - o Moderator: Dimitris Karagiannis, University of Vienna, Austria
 - o Panelists:
 - Dimitris Plexousakis, Institute of Computer Science, FORTH and University of Crete, Greece.
 - Johann Eder, Alpen-Adria University Klagenfurt, Austria.
 - Hans-Georg Fill, University of Fribourg, Switzerland.
 - Ulrich Frank, University of Duisburg-Essen, Germany

Pre-Conference Events Dinner BRIDGE PAVILION (17:30)

Wednesday June 14

8:00 - 9:00

Registration. HALL - CONGRESS PALACE

9:00 - 10:30

- CAiSE'23 Welcome & Keynote 1. Welcome by Carlos Cetina and Oscar Pastor. Keynote chaired by Marta Indulska. AUDITORIUM
 - o Keynote: Giancarlo Guizzardi. A Meaningful Road to Explanation.

Coffee break (10:30 - 11:00) - ROOM C

11:00 - 12:30

- Cyber-human & Cyber Physical Systems (Session 1). Chaired by Matthias Jarke. ROOM 3 & 4
 - o Chiara Lucifora, Misael Mongiovì, Luana Bulla, Stefano De Giorgis and Aldo Gangemi. Comparing User Perspectives in a Virtual Reality Cultural Heritage Environment.
 - o Steven Alter. Can Information System Engineering Make Cyber-Human Systems Smarter?
 - Xiwei Li, Xi Wu, Yongxin Zhao and Yongjian Li. Perceptual Risk-Aware Adaptive Responsibility Sensitive Safety for Autonomous Driving.
- Event-driven Process Mining (Session 2). Chaired by María Teresa Gómez. ROOM 5 & 6
 - o Diego Calvanese, Mieke Jans, Tahir Emre Kalayci and Marco Montali. Extracting Event Data from Document-Driven Enterprise Systems.
 - o Hannes Häfke and Sebastiaan van Zelst. Event Data-Driven Feasibility Checking of Process Schedules.
 - o Christoffer Olling Back and Jakob Grue Simonsen. Comparing Trace Similarity Metrics across Logs and Evaluation Measures.

• Tutorial 1. ROOM 9

Oscar Diaz and Jeremías P. Contell. Why is coming up with a Research Question difficult?

Lunch - ROOM C & SC meeting (12:30 - 14:00) - ROOM 7 & 8

14:00 - 15:30

- IoT (Session 3). Chaired by Janis Stirna. ROOM 3 & 4
 - o Marc Vila, Maria-Ribera Sancho and Ernest Teniente. Modeling Context-Aware Events and Responses in an IoT Environment.
 - o Riccardo Pinciroli, Raffaela Mirandola and Catia Trubiani. Modular Quality-of-Service Analysis of Software Design Models for Cyber-Physical Systems.
 - [Journal First] Ronny Seiger, Lukas Malburg, Barbara Weber and Ralph Bergmann. Integrating process management and event processing in smart factories: A systems architecture and use cases.
- Process Mining (Session 4). Chaired by Massimo Mecella. ROOM 5 & 6
 - o Adrian Rebmann and Han van der Aa. Unsupervised Task Recognition from User Interaction Streams.
 - Vanessa Pradas Fernández, Ángel Jesús Varela-Vaca and María Teresa Gómez López. Revealing the importance of Setting Parameters in Declarative Discovery Algorithms: A evolutionary-based methodology.
 - Katsiaryna Lashkevich, Fredrik Milani, David Chapela-Campa, Ihar Suvorau and Marlon Dumas. Why am I Waiting? Data-Driven Analysis of Waiting Times in Business Processes.

• Tutorial 2. ROOM 9

o Steven Alter. The Work System Perspective.

CAiSE Forum Pitches (15:30 – 15:50) (See accepted papers at: https://caise23.svit.usj.es/accepted-papers-caise-forum/). ROOM 9

Coffee break & CAiSE Forum Poster (15:50 – 16:00) - ROOM C & B

16:00 - 17:30

- Panel. AUDITORIUM
 - Title: Academic life and career in the 21th century.
 - Moderators
 - Stefanie Rinderle-Ma. Technische Universität München, Germany.
 - Hajo Reijers. Utrecht University, Netherlands.
 - o Panelists:
 - Martin Käppel. Universität Bayreuth, Germany.
 - Kateryna Kubrak. University of Tartu, Estonia.
 - Ernest Teniente. Universidad Politécnica de Cataluña.
 - Xixi Lu. Utrecht University, Netherlands.
 - Karolin Winter. Eindhoven University of Technology, Netherlands.
 - Francesca Zerbato. University. St. Gallen, Switzerland.

Conference Party
ALJAFERIA PALACE & ALQUERIA ESTATE (17:30)

Thursday June 15

8:00 - 9:00

Registration. HALL - CONGRESS PALACE

9:00 - 10:30

- CAiSE'23 Keynote 2. Chaired by Iris Reinhartz-Berger. AUDITORIUM
 - Report from the sustainability chairs
 - Keynote: Bran Selic. Matching Software with Reality.

Coffee break (10:30 - 11:00) - ROOM C

11:00 - 12:30

• Ontology & Knowledge Representation (Session 5). Chaired by Ulrich Frank. ROOM 3 & 4

- Oscar Díaz and Xabier Garmendia. Where are the readings behind your concept maps? Annotation-driven Concept Mapping.
- Anna Bernasconi, Alberto García S., Giancarlo Guizzardi, Luiz Olavo Bonino da Silva Santos and Veda C. Storey. Ontological representation of FAIR principles: A blueprint for FAIRer data sources.
- o Syed Juned Ali, Giancarlo Guizzardi and Dominik Bork. Enabling Representation Learning in Ontology-Driven Conceptual Modeling using Graph Neural Networks.

• Conformance, Compliance and Workarounds (Session 6). Chaired by Barbara Weber. ROOM 5 & 6

- o Catherine Sai, Karolin Winter, Elsa Fernanda and Stefanie Rinderle-Ma. Detecting Deviations Between External and Internal Regulatory Requirements for Improved Process Compliance Assessment.
- Marisol Barrientos, Karolin Winter, Jürgen Mangler and Stefanie Rinderle-Ma. Verification of Quantitative Temporal Compliance Requirements in Process Descriptions over Event Logs.
- o [Journal First] *Pnina Soffer, Nesi Outmazgin, Irit Hadar and Shay Tzafrir.* Why Work Around the Process? Analyzing Workarounds Through the Lens of the Theory of Planned Behavior.

• Tutorial 3. ROOM 7 & 8

Anthony Wasserman. Open-Source Software for Information Systems.

Doctorial Consortium (Session 1). Chaired by Jolita Ralyte. ROOM 9

- o Gabriel Morais. Enabling Systematic Microservices Reuse Through DevOps Mentors: Xavier Franch and Raimundas Matulevicius.
- o Alberto Gaspar Villalba. Methodology to Automate Intelligent User Interfaces' Development Mentors: Jolita Ralyte and Xavier Franch.
- o Jan Lundberg. Towards a Conceptual Framework for System of Systems Mentors: John Krogstie and Selmin Nurcan.

Lunch (12:30 - 14:00) - ROOM C

14:00 - 15:30

Model-driven Approaches (Session 7). Chaired by Monique Snoeck. ROOM 3 & 4

- Michele Chiari, Bin Xiang, Galia Novakova Nedeltcheva, Elisabetta Di Nitto, Lorenzo Blasi, Debora Benedetto and Laurentiu Niculut. DOML: A New Modelling Approach To Infrastructure-as-Code.
- o Vijanti Ramautar, Sergio España and Sjaak Brinkkemper. Task Completeness Assessments in the Evolution of Domain-Specific Modelling Languages.
- Laura García-Borgoñón, Miguel Angel Barcelona, Armando J Egea, German Reyes, Alejandro Sainz de la Maza and Adolfo Gonzalez. Lessons learned in modelbased reverse engineering of large legacy systems.

• Process Monitoring (Session 8). Chaired by Adela del Río Ortega. ROOM 5 & 6

- o Kateryna Kubrak, Fredrik Milani, Alexander Nolte and Marlon Dumas. Design and Evaluation of a User Interface Concept for Prescriptive Process Monitoring.
- Zahra Dasht Bozorgi, Marlon Dumas, Marcello La Rosa, Artem Polyvyanyy, Mahmoud Shoush and Irene Teinemaa. Learning When to Treat Business Processes:
 Prescriptive Process Monitoring with Causal Inference and Reinforcement Learning.
- o Martin Käppel and Stefan Jablonski. Model-Agnostic Event Log Augmentation for Predictive Process Monitoring.

• Privacy and Security (Session 9). Chaired by Pierluigi Plebani. ROOM 7 & 8

- o Jan Pennekamp, Johannes Lohmöller, Eduard Vlad, Joscha Loos, Niklas Rodemann, Patrick Sapel, Ina Berenice Fink, Seth Schmitz, Christian Hopmann, Matthias Jarke, Günther Schuh, Klaus Wehrle and Martin Henze. Designing Secure and Privacy-Preserving Information Systems for Industry Benchmarking.
- Ryan Hildebrant, Stephan Fahrenkrog-Petersen, Matthias Weidlich and Shangping Ren. PMDG: Privacy for Multi-perspective Process Mining through Data Generalization.
- Lukas Daubner, Raimundas Matulevicius, Barbora Buhnova, Matej Antol, Michal Růžička and Tomáš Pitner. Impact of Forensic-Ready Information Systems on the Security Posture.

• Doctorial Consortium (Session 2). Chaired by Janis Stirna. ROOM 9

- O Guzmán Llambías. Blockhain Interoperability Mentors: Janis Stirna and Pnina Soffer.
- Mariia Bakhtina. Towards More Secure and Data Protective Intelligent Infrastructure Systems Mentors: Janis Stirna and Hajo Reijers.
- o Mahmoud Shoush. Prescriptive Monitoring of Business Processes Under Uncertainty and Resource Constraints Mentors: Pnina Soffer and Hajo Reijers.

Coffee break (15:30 - 16:00) - ROOM C

Thursday June 15

16:00 - 17:30

- Environmental applications (Session 10). Chaired by Selmin Nurcan. ROOM 3 & 4
 - o Chihab Hanachi, Patricia Stolf and Aurelien Richa. Simulating and Analyzing Crowdsourcing Impacts in Flood Management: a geo-spatial agent-based approach.
 - o Martín Anselmo and Monica Vitali. A Data-Centric Approach For Reducing Carbon Emissions in Deep Learning.
 - [Journal First]. Rubén Béjar, Javier Lacasta, Francisco J. Lopez-Pellicer and Javier Nogueras-Iso. Discrete Global Grid Systems with quadrangular cells as reference frameworks for the current generation of Earth observation data cubes.
- Explainable AI (Session 11). Chaired by Dominik Bork. ROOM 5 & 6
 - o Olusanmi Hundogan, Xixi Lu, Yupei Du and Hajo A. Reijers. CREATED: Generating Viable Counterfactual Sequences for Predictive Process Analytics.
 - Andrei Buliga, Chiara Di Francescomarino, Chiara Ghidini and Fabrizio Maria Maggi. Counterfactuals and Ways to Build Them: Benchmarking Approaches in Predictive Process Monitoring.
- Data-Centric Approaches (Session 12). Chaired by Han van der Aa. ROOM 7 & 8
 - o Kristo Raun, Max Nielsen, Andrea Burattin and Ahmed Awad. C-3PA: Streaming Conformance, Confidence and Completeness in Prefix-Alignments.
 - o Francesca Zerbato, Andrea Burattin, Hagen Völzer, Paul Nelson Becker, Elia Boscaini and Barbara Weber. Supporting Provenance and Data Awareness in Exploratory Process Mining.
 - o Lars Ackermann, Julian Neuberger, Martin Käppel and Stefan Jablonski. Bridging research fields: An empirical study on joint, neural relation extraction techniques.
- Doctorial Consortium (Session 3) & Awards. Chaired by Raimundas Matulevicius. ROOM 9
 - o Carlo A. Bono. Adaptive filtering strategies for social media streams Mentors: Selmin Nurcan and Raimundas Matulevicius.
 - o Keynote: Xavier Franch. This crazy little thing called PhD.

17:30 - 18:30

SC meeting. ROOM 9

Conference Dinner & CAiSE'23 Awards + CAiSE'24 Presentation WATER TOWER (19:00)

Friday June 16

8:00 - 9:00

Registration. HALL - CONGRESS PALACE

9:00 - 10:30

- CAiSE'23 Keynote 3. Chaired by Oscar Pastor. AUDITORIUM
 - Keynote: Pnina Soffer. Theory-guided information systems engineering.

Coffee break (10:30 - 11:00) - ROOM C

11:00 - 12:30

- Requirements Engineering (Session 13). Chaired by Jolita Ralyté. ROOM 3 & 4
 - o Edouard Guégain, Clément Quinton and Amir Taherkordi. Leave Well Enough Alone: Configuration Optimization with Limited Functional Impact.
 - o [Journal First] Monique Snoeck and Yves Wautelet. Agile MERODE: a model-driven software engineering method for user-centric and value-based development.
 - o [Journal First] Maria Jose Escalona, Nora Koch and Laura García-Borgoñón. Lean requirements traceability automation enabled by model-driven engineering.

• Service-related Approaches (Session 14). Chaired by Mārīte Kirikova. ROOM 5 & 6

- o Tianyu Jiang, Mingyi Liu, Zhiying Tu and Zhongjie Wang. Identifying and Removing the Ghosts of Reproducibility in Service Recommendation Research.
- o Min Li, Hanchuan Xu, Xiaofei Xu and Zhongjie Wang. A Resource-Constrained Multi-level SLA Customization Approach based on QoE Analysis of Large-scale Customers
- Imen Jerbi, Hayet Brabra, Mohamed Sellami, Walid Gaaloul, Sami Bhiri, Boualem Benatallah, Djamal Zeghlache and Olivier Tirat. Request relaxation based-on provider constraints for a capability-based NaaS services discovery.
- Research Projects Exhibition. Chaired by Jaime Font, José Fabián Reyes and Lorena Arcega. ROOM 7 & 8
 - Human & Society System Engineering:
 - John Krogstie. Center for sustainable ICT CESICT.
 - Olivier Le Goaër. Decarbonizing Software with Free and Open Source Software: The ecoCode Project.
 - Alberto García S., José Fabián Reyes Román, Mireia Costa, Ana León and Oscar Pastor. Delfos Platform: Information System for the management of genomic variations.
 - Ana León, José Fabián Reyes Román, Mireia Costa, Alberto García S. and Oscar Pastor. OGMIOS: An Intelligent System for Supporting Clinical Decisions in Precision Medicine.
 - Pierluigi Plebani, Ronen Kat, Frank Pallas, Sebastian Werner, Giacomo Inches, Peeter Laud and Rita Santiago. TEADAL: Trustworthy, Energy-Aware federated Data Lakes along the computing continuum.
 - Discussion.
 - Process Mining & Industry Adoption:
 - Antonio Filograna, Philipp Martin, Raphael Sturm, Francisco Sanz and Lucía Moreno. A cloud-based platform to support the policymaking: The case of the DECIDO project.
 - Simone Agostinelli, Francesca De Luzi, Michele Manglaviti, Massimo Mecella, Flavia Monti, Fabio Maria Petriccione, Maurizio Mesenzani, Alessandro Pollini,
 Alice Verioli and Ulderico Amadio. BinTraWine Blockchain, Tracking and Tracing solutions for Wine.
 - Marco Franceschetti, Ronny Seiger, Mauricio Jacobo González González, Enrique Garcia-Ceja, Luis Armando Rodríguez Flores, Luciano García-Bañuelos and Barbara Weber. ProAmbitlon: Online Process Conformance Checking with Ambiguities Driven by the Internet of Things.
 - Francesca Zerbato, Lisa Zimmermann, Hagen Völzer and Barbara Weber. ProMiSE: Process Mining Support for End-Users.
 - Marco Calamo, Adriano De Franceschi, Gabriele De Santis, Francesco Leotta, Civita Mazzaroppi, Jerin George Mathew, Massimo Mecella, Flavia Monti,
 Claudio Sabatino, Luca Visani and Marco Visani. TopKontrol: a monitoring and quality control system for the packaging production.
 - Discussion.
 - Domain Specific Engineering & Modeling:
 - Ginta Majore, Linas Bukauskas, Stefan Sütterlin and Agné Brilingaité. Advancing Human Performance in Cybersecurity.
 - Rene Noel, Rosa Velasquez, José Ignacio Panach and Oscar Pastor. Agile development of Systems from REquirements to Code (SREC).
 - Beatriz Marín, Tanja E. J. Vos, Monique Snoeck, Ana C. R. Paiva and Anna Rita Fasolino. ENACTEST project European Innovation Alliance for Testing Education.
 - Ulrich Frank and Tony Clark. Language Engineering for Multi-Level Modeling (LE4MM): A long-term Project to Promote the Integrated Development of Languages, Models and Code.
 - Giovanni Giachetti, Daniel Catalá, Blanca de Miguel, Conrado Carrascosa, Maria de Miguel and Oscar Pastor. Music360: Modeling the Value of Music.
 - Discussion

12:30 - 13:00

• Conference Closing. Carlos Cetina and Oscar Pastor. ROOM 9