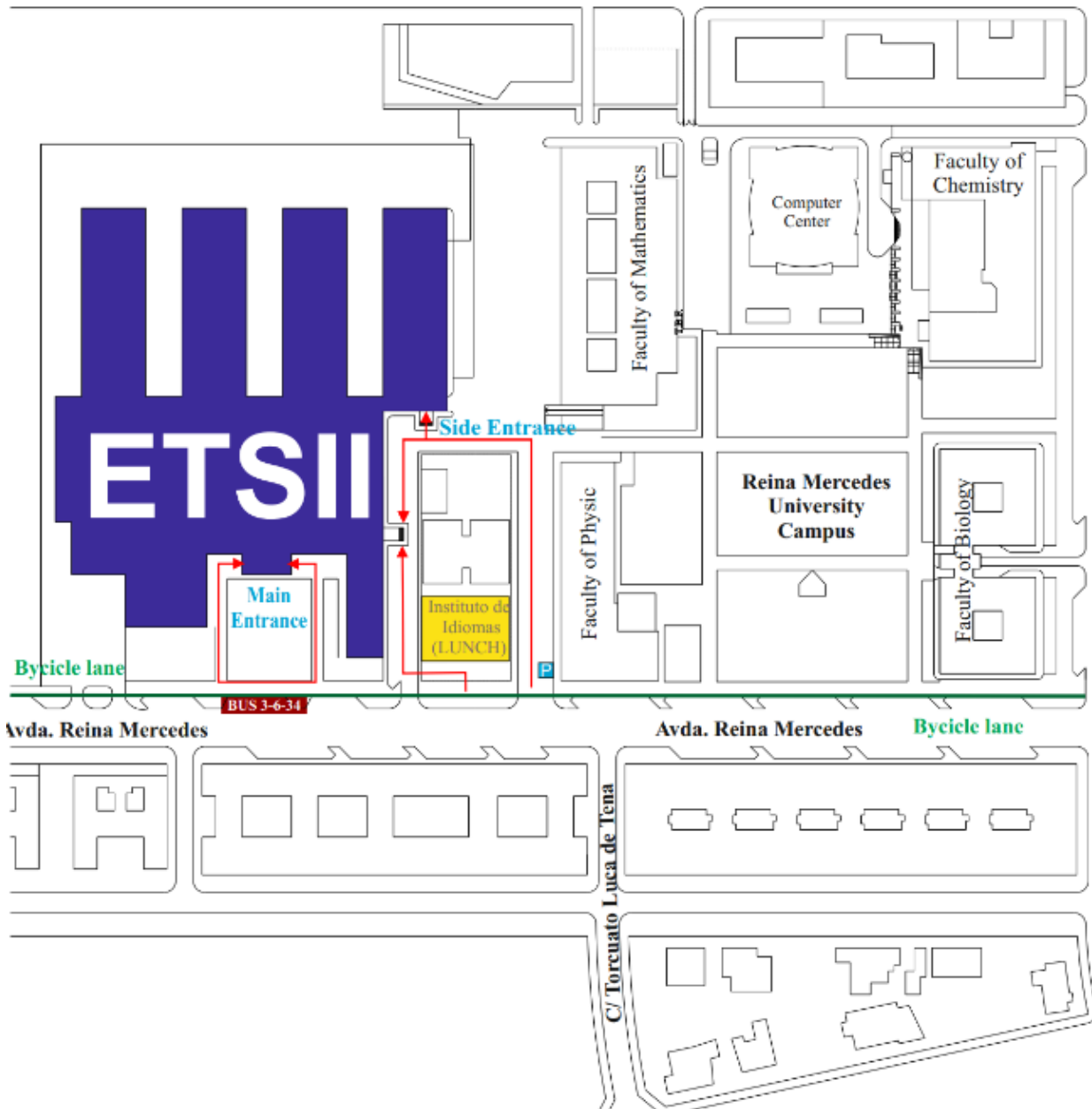
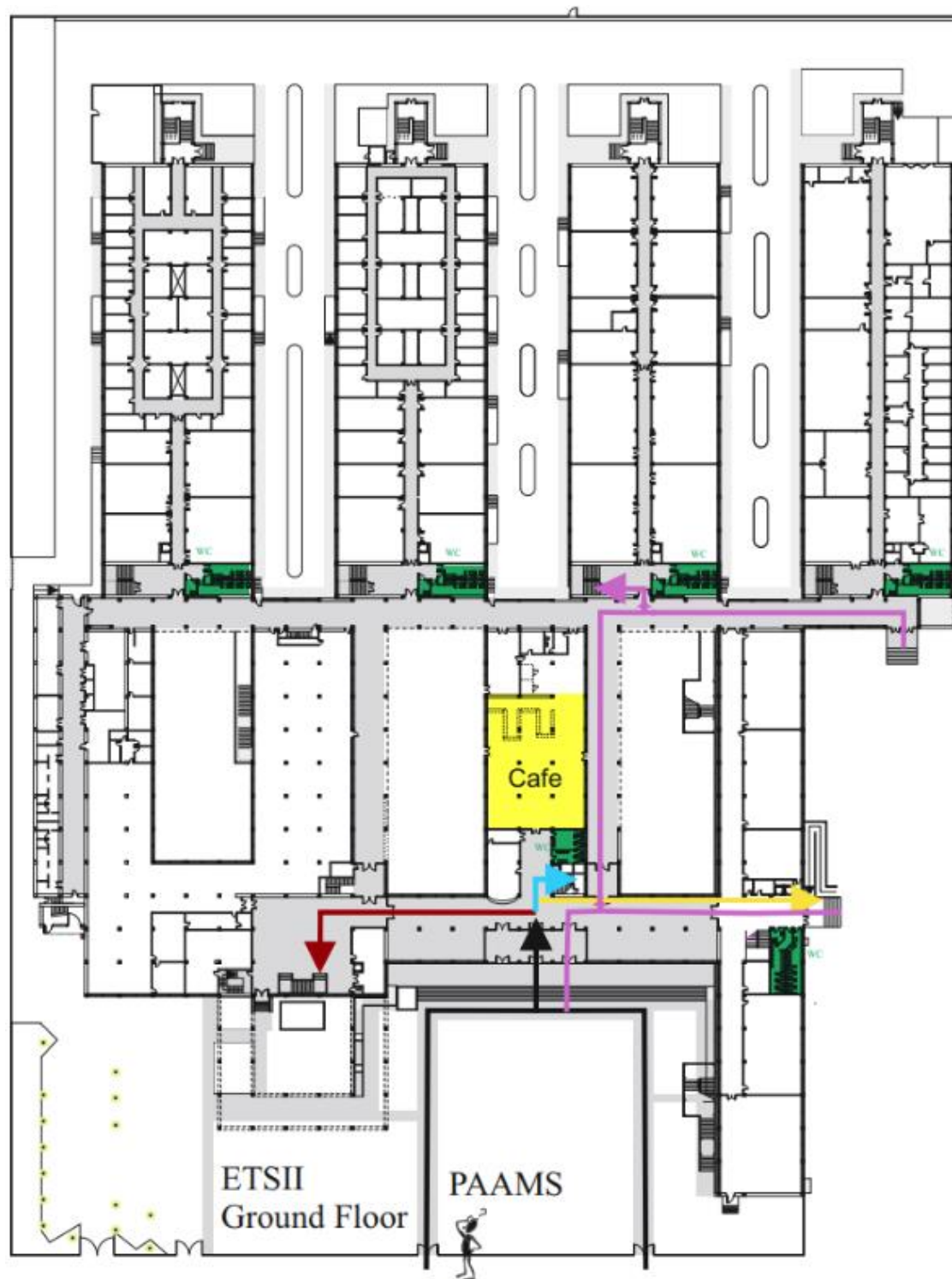


MAP





Avenida de la Reina Mercedes





PROGRAMME

8:45 – 9:15	Tuesday, 20 May 2025		Wednesday, 21 May 2025		Thursday, 22 May 2025		Friday, 23 May 2025	
	Workshop BPMS2	Workshop CPSS4Sus2025	Opening (Room Aula de Grados)					
9:15 – 10:30	Keynote Raihan Ali (Room Aula de Grados)	Keynote Coral Calero (Room Multiusos)	Keynote Tijds van der Storm "The next 700 Low Code Platforms" (Room Aula de Grados)		Keynote Ramón Canelo Gil "Bridging the Gap: Knowledge Transfer between Academia and Industry in the Era of AI" (Room Aula de Grados)		Keynote Giancarlo Guizzardi "Explanation, Semantics, Ontology & Trustworthiness" (Room Aula de Grados)	
	Coffee (Room Estudios)		Coffee (Room Estudios)		Coffee (Room Estudios)		Coffee (Room Estudios)	
10:30 – 11:00	Workshop BPMS2 (Room Aula de Grados)	Workshop CPSS4Sus2025 (Room Multiusos)	Information Systems Quality (Room H1.12)	Modeling Methods and Requirements Engineering (Room Multiusos)	Forum (Room Estudios)	Research Projects (Room Aula de Grados)	Databases and Information Management (Room Aula de Grados)	Machine-Learning and Generative AI Applications II (Room Multiusos)
	Lunch (Instituto de Idiomas)		Lunch (Instituto de Idiomas)		Lunch (Instituto de Idiomas)		Lunch (Instituto de Idiomas)	
13:00 – 14:30	Tutorial I (Room Multiusos)	Doctoral Consortium (Room FIDETIA)	Security, Risk and Strategy (Room H1.12)	Business Process Engineering and Management I (Room Multiusos)	Conceptual Modeling and Ontologie (Room Multiusos)	Business Process Engineering and Management II (Room Aula de Grados)	Human Factors in Information Systems (Room Aula de Grados)	
	Coffee (Room Estudios)		Coffee (Room Estudios)		Coffee (Room Estudios)		Closing (Room Aula de Grados)	
14:30 – 16:00	Tutorial I (Room Multiusos)	Doctoral Consortium (Room FIDETIA)	Machine-Learning and Generative AI Applications I (Room H1.12)		Panel (Room Multiusos)	Tutorial III (Room Aula de Grados)		
			Tutorial II (Room Multiusos)					
16:00 – 16:30								
16:30 – 18:00								



WORKSHOPS

TUESDAY, MAY 20th

09:00 – 13:00 **PARALLEL SESSIONS**

[ROOM AULA DE GRADOS]

WORKSHOP **BPMS2**

09:00 – 09:15 Welcome & Opening

09:15 – 10:30 Keynote "Design, Processes, and Human Behaviour in the Age of AI"

Raian Ali

[ROOM MULTIUSOS]

WORKSHOP **CPSS4Sus2025**

09:00 – 09:15 Kickoff - Welcome and Opening Remarks

09:15 – 10:00 Keynote "Keynote - Code Green: Houston, we have a problem!"

Coral Calero

09:15 – 10:00 Towards a Model of Multilevel Adaptive Collaboration

Jöran Lindeberg and Martin Henkel

10:30 – 11:00 **COFEE BREAK**

11:00 – 13:00 **PARALLEL SESSIONS**

[ROOM AULA DE GRADOS]

WORKSHOP **BPMS2**

11:00 – 11:30 Understanding Trust Formation in GPT Services: An Empirical Study

Helena Li and Irina Rychkova

09:15 – 10:00 Towards Levels of Assurance for Data Trustworthiness - A Novel Framework to Promote Trust in Inter-Organisational Data Sharing

Florian Zimmer, Janosch Haber, Mayuko Kaneko and Takuma Takeuchi

09:15 – 10:00 Towards An Approach for Designing Responsible Privacy Heuristics

Beatriz Pontes da Costa Reis and Mohamad Gharib

[ROOM MULTIUSOS]

WORKSHOP CPSS4Sus2025

11:00 – 12:20 World Café – Group Activity

12:30 – 13:00 Closing Remarks

13:00 – 14:30 **LUNCH**

14:30 – 16:00 **PARALLEL SESSIONS**

[ROOM MULTIUSOS]

TUTORIAL I

Taking control of our privacy when using mobile apps: checks and tools

M. Mercedes Martínez-González, Alejandro Pérez-Fuente, Amador Aparicio, and Pablo Abel Criado

[ROOM FIDETIA]

DOCTORAL CONSORTIUM

Digital twins for incident detection and response
Konstantinos Evangelos Kampourakis

Towards an Enterprise Architecture based approach for the development of Digital Twins for Sustainable Real Estate Management
Marianne Schnellmann

A method for Domain Reference Model inference through Knowledge and Data Intelligent Unifiers
Pedro Guimarães

16:00 – 16:30 **COFEE BREAK**

16:30 – 18:00 **PARALLEL SESSIONS**

[ROOM MULTIUSOS]

TUTORIAL I

Taking control of our privacy when using mobile apps: checks and tools

M. Mercedes Martínez-González, Alejandro Pérez-Fuente, Amador Aparicio, and Pablo Abel Criado

[ROOM FIDETIA]

DOCTORAL CONSORTIUM

KEYNOTE

This Crazy little thing called PhD

Xavier Franch

MAIN CONFERENCE

KEYNOTES

WEDNESDAY, MAY 21st

09:15 – 10:30

TJIS VAN DE STORM

The next 700 Low Code Platforms

-- CHAIR: *Tanja E. J. Vos*



Centrum Wiskunde & Informatica



THURSDAY, MAY 22nd

09:15 – 10:30

RAMÓN CANELO GIL

Bridging the Gap: Knowledge Transfer between Academia and Industry in the Era of AI

-- CHAIR: *María José Escalona*



FRIDAY, MAY 23rd

09:15 – 10:30

GIANCARLO GUIZZARDI

**Explanation, Semantics, Ontology &
Trustworthiness**

-- CHAIR: *Oscar Pastor*

**UNIVERSITY
OF TWENTE.**



WEDNESDAY, MAY 21st

08:45 – 10:30 **OPENING & KEYNOTE** [ROOM AULA DE GRADOS]

-- CHAIR: *Tanja E. J. Vos*

10:30 – 11:00 **COFFEE BREAK**

11:00 – 13:00 **PARALLEL SESSIONS**

[ROOM H1.12]

INFORMATION SYSTEMS QUALITY

-- CHAIR: *Lola de Acuña Garrido*

11:00 – 11:30 TRACE4PM : Trace Related Analysis and Clustering for Process Modeling of Users' Interactions in Information Systems.

Marwa Trabelsi, Noura Joudieh, Amira Ania Dahache, Cyrille Suire and Ronan Champagnat

11:30 – 12:00 Challenges in Data Quality Management for IoT-Enhanced Event Logs.

Yannis Bertrand, Alexander Schultheis, Lukas Malburg, Joscha Grüger, Estefanía Serral and Ralph Bergmann

12:00 – 12:30 Blockchain-Based Trust Management System for Enhancing Security in IoT.

Raouf Jmal, Mariam Masmoudi, Ikram Amous and Florence Sèdes

12:30 – 13:00 A comprehensive review on equivalent mutant detection using machine learning.

Gabriel Guerrero-Contreras, Sara Balderas-Díaz, Pedro Delgado-Pérez and Inmaculada Medina-Bulo

[ROOM MULTIUSOS]

-- CHAIR: *Jolita Ralyté*

MODEL METHODS AND REQUIREMENTS ENGINEERING

11:00 – 11:30 Modelling Hierarchies of Organisational Rules

Jöran Lindeberg, Martin Henkel and Katarina Fast Lappalainen

11:30 – 12:00 If complexity is the problem, collaboration is the solution: Drivers and trust-building interventions in DSR

Xabier Garmendia and Oscar Díaz

12:00 – 12:30 Synthline: A Product Line Approach for Synthetic Requirements Engineering Data Generation using Large Language

Models Abdelkarim El-Hajjaji and Camille Salinesi

12:30 – 13:00 The Role of Ethics in Requirements Engineering for Developing Information Systems
Christopher Julian Kern, Karin Hübner, Leo Poss, Stefan Schöning and Julia Kroenung

13:00 – 14:30 **LUNCH**

14:30 – 16:00 **PARALLEL SESSIONS**

[ROOM H1.12]

SECURITY, RISK, AND STRATEGY

-- CHAIR: *Martin Henkel*

14:30 – 15:00 Identifying and Detecting Patterns in Work Organization with Active Window Tracking.

Mari Braakman, Iris Beerepoot, Maria Peeters, Eva Knies and Hajo Reijers

15:00 – 15:30 Black Swan Theory for Navigating Trust in Mixed-Traffic Environments.

Hind Bangui, Barbora Buhnova and Mouzhi Ge

15:30 – 16:00 Friend, Foe, or Target? Domain models as risk deterrents, risk sources, and assets at risk.

Isadora Valle, Tiago Prince Sales, Eduardo Guerra, Ítalo Oliveira, Renata Guizzadi, Luiz Olavo Bonino da Silva Santos, Henderik Proper and Giancarlo Guizzardi

[ROOM MULTIUSOS]

BUSINESS PROCESS ENGINEERING AND MANAGEMENT I

-- CHAIR: *Robert Buchmann*

14:30 – 15:00 Multi-perspective Next Event Prediction in PPM via Heterogeneous Graph Neural Networks.

Sebastiano Dissegna, Chiara Di Francescomarino and Massimiliano Ronzani

15:00 – 15:30 OCPQ: Object-Centric Process Querying & Constraints.

Aaron Küsters and Wil van der Aalst

15:30 – 16:00 Investigating Tailored Retraining for Online Process Predictions using Log Features.

Suhwan Lee, Xixi Lu and Hajo A. Reijers

16:00 – 16:30 **COFFEE BREAK**

16:30 – 18:00 **PARALLEL SESSIONS**

[ROOM H1.12]

MACHINE LEARNING AND GENERATIVE AI APPLICATIONS I

-- CHAIR: TBD

16:00 – 17:15 Framework for the Design and Development of an Automated Virtual Data Integration System for Genomic Data.

Ana León

17:10 – 18:00 Modeling Out-of-Vocabulary Words via Grammatical Fusion.

Dror Mughaz

[ROOM MULTIUSOS]

TUTORIAL II

Problematising and Ideating for Design Science Research

John Venable

THURSDAY, MAY 22nd

09:15 – 10:30 **KEYNOTE** [ROOM AULA DE GRADOS]

-- CHAIR: *María José Escalona*

10:30 – 11:00 **COFFEE BREAK**

11:00 – 13:00 **PARALLEL SESSIONS**

[ROOM MULTIUSOS]

FORUM

-- CHAIR: *Greta Adamo and Beatriz Marín*

Can Llama 3 Accurately Assess Readability? A Comparative Study Using Lead Sections from Wikipedia

José Rodrigues, Carla Lopes and Henrique Lopes Cardoso

Research Challenges in Routine Optimization for Synthesizing Software Robots

José Luis Alonso Rocha, Antonio Martínez Rojas, Andrés Jiménez Ramírez and José González Enríquez

Mining for Meaning: Ontology-Aware Process Mining Methods Through Knowledge Patterns

Riley Moher and Michael Gruninger

How to use a FEM model as a basis for strategic-level risk analysis

Toomas Saarsen and Ilia Bider

Modelling Neural Network Models

Nadia Daoudi, Iván Alfonso and Jordi Cabot

Quantifying The Magnitude Of Violation: Predictive Compliance Monitoring Approaches

Qian Chen, Stefanie Rinderle-Ma and Lijie Wen

Evaluating Programming Optimization Techniques in C and Python: Impact on Energy Consumption

Carlos Pulido, Félix García, M^a Ángeles Moraga, Coral Calero, Miguel Baños-González, Jorge Cancho-Casado and Javier Corral-García

An Analysis of Resilience in Digital Business Ecosystems

Beāte Krauze

AI Auditing: towards a practicable model

Bran Van Wingerden and Hans Weigand

From Acquiring to Suggesting DL Design Choices with Agility: a System Design

Gustavo Rodrigues dos Reis, Mario Cortes-Cornax, Adrian Mos and Cyril Labbé

[ROOM AULA DE GRADOS]

RESEARCH PROJECTS

-- CHAIR: *Isabel Brito and Irina Rychkov*

DigiTDevOps: A Digital Twins Development and Operational Platform

Gusts Linkevics, Lauma Jokste and Rasa Gulbe

Low-code to fight climate change: the Climaborough project

Aaron Conrardy, Armen Sulejmani, Cindy Guerlain, Daniele Pagani, David Hick, Matteo Satta and Jordi Cabot

Model-Based Methodology for Development of IT Project Management Plan and Scope Using Artificial Intelligence: Project in Progress

Oksana Nikiforova, Jānis Grabis, Oscar Pastor, Kristaps Babris, Megija Krista Miļūne and Rihards Bobkovs

Accumulation and Evolution of Design Knowledge in Research Software

Oscar Díaz, Xavier Franch and Xabier Garmendia

Designing a Strategic Planning Method for Digital Transformation Initiatives in Natural History Museums: Methodological Reflections from an Industrial Doctorate

Cristabel Evelia Alvarado Pérez, Joan Antoni Pastor Collado and Eulàlia Garcia Franquesa

BETTER: Better rEal-world healTh-DaTa distributEd analyticsResearch platform
Ana León, José Reyes-Román and Oscar Pastor

13:00 – 14:30 **LUNCH**

14:30 – 16:00 **PARALLEL SESSIONS**

[ROOM MULTIUSOS]

CONCEPTUAL MODELING AND ONTOLOGIES

-- CHAIR: *Mohamad Gharib*

14:30 – 15:00 Towards an Ontology of Type-Level Phenomena for System Modeling.

Rodrigo F. Calhau, João Paulo A. Almeida, Giancarlo Guizzardi, Raquel Hoffmann, Luís Ferreira Pires, James Logan and João Rebelo Moreira

15:00 – 15:30 Low-code Browser Front-End Automation Using RDF Graphs and a Domain-specific Language for UX Representations.

Stefan Uifălean and Robert Andrei Buchmann

15:30 – 16:00 Risk Response: an adversarial discourse game and group modelling tool.

Max Willis, Greta Adamo and Anna Sperotto

[ROOM AULA DE GRADOS]

BUSINESS PROCESS ENGINEERING AND MANAGEMENT II

-- CHAIR: *Oksana Nikiiforova*

14:30 – 15:00 Navigating the Challenges of Process Mining Use Case Definition: A Qualitative Study.

Kerstin Haug, Pol Schumacher, Holger Wittges and Stefanie Rinderle-Ma

15:00 – 15:30 Review of Design of Business Process Simulation Models.

Samira Khraiwesh and Luise Pufahl

15:30 – 16:00 Exploring Webcam Eye Tracking Software for Robotic Process Automation: A Pilot Benchmarking Study.

Manuel García Romero, Antonio Martínez Rojas, José González Enríquez and Andrés Jiménez Ramírez

16:00 – 16:30 **COFFEE BREAK**

16:30 – 18:00 **PARALLEL SESSIONS**

[ROOM MULTIUSOS]

PANEL: IT Users' Well-being in the Era of Digitalization

-- *CHAIR: Elena Kornyshova and Maribel Yasmina Santos*

Panelists:

Raian Ali

Mohamad Gharib

Selmin Nurcan

Jolita Ralité

[ROOM AULA DE GRADOS]

TUTORIAL III

Introduction to Fractal Enterprise Model (FEM) and FEM toolkit

Ilia Bider

FRIDAY, MAY 23rd

09:15 – 10:30 **KEYNOTE** [ROOM AULA DE GRADOS]

-- *CHAIR: Oscar Pastor*

10:30 – 11:00 **COFFEE BREAK**

11:00 – 13:00 **PARALLEL SESSIONS**

[ROOM AULA DE GRADOS]

DATABASES AND INFORMATION MANAGEMENT

-- *CHAIR: Andreas Klein*

11:00 – 11:30 Model-Agnostic Evolution Management.

Pavel Koupil, Jachym Bartik and Irena Holubova

11:30 – 12:00 A Flexible Framework for Transposition-Aware Querying of a Musical Score Database.

Adel Aly, Olivier Pivert and Virginie Thion

12:00 – 12:30 Implementing Digital Twin Query Views.

Emilio Carrión and Pedro Valderas

12:30 – 13:00 Cross-Lingual Entity Linking using GPT Models in Radiology Abstracts.

Mariana Dias and Carla Teixeira Lopes

[ROOM MULTIUSOS]

MACHINE LEARNING AND GENERATIVE AI APPLICATIONS II

-- CHAIR: *Andrés Jiménez Ramírez*

11:00 – 11:30 Can Generative AI Mitigate Strategic Decision-Making Complexity? An Empirical Exploration of RAG-Augmented Decision-Support Systems.

Jordan Abras, Corentin Burnay and Stéphane Faulkner

11:30 – 12:00 Early Length of Stay Prediction at Admission in Short-Stay Hospitals.

Mohamed Gharbi, Christine Verdier, Maria Di Mascolo and Jean-Mark Babouchkine

12:00 – 12:30 Alignment of schema-only and instance-only data sources using large language models.

Nour Elhouda Kired, Franck Ravat, Jiefu Song and Olivier Teste

12:30 – 13:00 Zero-shot Approaches for the Extraction of Event Logs from Medical Notes.

Allmin Pradhap Singh Susaiyah and Natalia Sidorova

13:00 – 14:30 **LUNCH**

14:30 – 16:00 [ROOM AULA DE GRADOS]

HUMAN FACTORS IN INFORMATION SYSTEMS

-- CHAIR: *Selmin Nurcan*

14:30 – 15:00 Developing a Design Features Taxonomy of Human-Computer Interaction in Social Media that Affect User Engagement and Addictive Behaviors.

Maria Fernanda Granda Juca, María-Belén Sarmiento, Ana Gabriela Nuñez Avila, Ricardo Maldonado and Otto Parra

15:00 – 15:30 User Correction of Misinformation on Social Media: Perceived and Actual Social Norms.

Selin Gurgun, Emily Arden-Close, Keith Phalp and Raian Ali

15:30 – 16:00 Do Social Media Simultaneously Contribute to Well-Being and Use Disorder? Empirical Evidence and Design Challenges.

Tourjana Islam Supti, Ala Yankouskaya, Sameha Alshakhsi, Areej Babiker, Dena Al-Thani and Raian Ali

16:00 – 16:30 **CLOSING**