	Wednesday January 17th			Friday January 19th		
08:30-08:45	REGISTRATION		Thursday January 18th			
08:45-09:00	OPENING					
09:00-09:40	<u>Al METHODS AND APPLICATIONS. Chair person: Pilar Latorre</u> KEYNOTE SPEAKER: Sofia Teixeira, Universidade de Lisboa		AI METHODS AND APPLICATIONS. Chair person: Alberto Aleta Al METHODS KENNOTS SFEAKER: Miguel Rocha, Universidade do Minho		AND APPLICATIONS. Chair person: Andreia Sofia Teixeira YNOTE SPEAKER: Alex Rayón, University of Comillas	09:00-09:40
09:40-10:00	Exploring of and receiver science for internal rectain INTERDISCIPINARY SESSION-Lab Antifut Moreno for a first of a dark internal of based for and internal internal		Supervised and generative usep reaming modes to product the activity and to design novel compounds and proteins. Miguel A. Vela-Tafalla. Investment works through hyperlinking in science and technology articles		Joaquín J. Tores	
10.00 10.00	An Overnew of Applications of Deep Learning in Science Juan Luis Durán Batalla		SPONSOR SESSION: Miguel Fajardo, DELL Technologies	Associative memory in Dissipative Quantum weural wetworks Rafael Tolosana		10.00 10.00
10:00-10:20	Information Retrieval and Keyphrase Extraction with the aid of LLMs		The AI Boom. A new scenario, a new way of doing things & the role of Dell Tech.	The AloD: The European Al On-Demand Platform and Ecosystem		10:00-10:20
10:20-10:40	Sergio Sabroso Deciphering Pancreatic Ductal Adenocarcinoma progression from Al		Miguel A. Benitez-Castro. Nutcracker, a semi-supervised algorithm for the detection and tackling of online radicalization and extremism	AI METHODS AND APPLICATIONS. KEYNOTE SPEAKER:		10:20-10:40
10:40-11:00	Douglas V. Laurents ML Programs and NMR Spectroscopy as Partners to Understand Proteins		Pablo Calvo-Barlés Finding discrete symmetries in data via Machine Learning	Beatriz Sebane, Universite Paris-Saclay Statistical Physics of Energy-Based generative models		10:40-11:00
11:00-11:30	COFFEE BREAK (Torres Quevedo Building)		COFFEE BREAK (Torres Quevedo Building)	COFFEE BREAK (Torres Quevedo Building)		11:00-11:30
	<u>AI AND STATISTICAL MODE'LING. Chair person: Ana Cebrián</u> KEYNOTE SPEAKER: Paula Gordaliza, Universidad de Navarra Ensuring stability in the assessment of algorithmic fairness		Al APPLICATIONS IN BIOMEDICINE. Chair person: Beatrix Hermundar. KEYNOTE SPEAKER: Noelia Ferrur, Barcelona Institute of Molecular Biology Controllable protein design with unsupervised language models	AI APPLIC	ATIONS IN BIOMEDICINE. Chair person: Noelia Ferruz.	11:30-11:50
11:30-12:10				patient	Jonathan Frazer. Increasing the diagnostic yield of t sequencing with proteome-scale probabilistic modelling	11:50-12:10
12:10-12:30	INTERDISCIPLINARY SESSION: Luis Mariano Esteban. Modern machine learning methods: a combination of statistical models and advanced algorithms		Xavier de la Cruz. When future is now: the rising contribution of AI to the clinical understanding of genetic variability	Protpos	Helena García-Cebollada Protposer: when machine learning and protein stabilization meet	
12:30-12:50	Rocío Aznar Gimeno. Al and : Practical Cases, Challe	Statistics for Disease Prevention: lenges, and Achievements	Carlo Manzo Decoding Microscopic Dynamics through Graph Inductive Knowledge	Sonia Hermoso-Durán. ML in Thermal Liquid Biopsy of intracystic Fluid Samples: A New Tool for Presurgical Diagnosis of Pancreatic Cystic Lesions.		12:30-12:50
12:50-13:10	Zeus Gra Predicting depression risk in ear	acia-Tabuenca wly adolescence using brain imaging	Paulino Gómez-Puertas. Molecular dynamics simulations: Applications to the study of macromolecular function and drug design	Borja Requena Inferring pointwise diffusion properties of single trajectories with deep learning		12:50-13:10
13:10-15:00	LUNCH			Jav	rier Orera. Application of forward PINN solvers to the modelling of transient blood flow in vessels	13:10-13:30
					CLOSING REMARKS	13:30-13:45
			LUNCH		Legend AI: METHODS & APPLICATIONS	
15:00-15:20	AI AND STATISTICAL MODELING. Chair person: Gerardo Sanz Fernando Jahor Analysis of Random Loser signal in tissues for diagonsis		ALAPPLICATIONS IN PHYSICS, Chair person: Beatriz Seoane	AI & STATISTICAL MODELING AI APPLICATIONS IN PHYSICS		
15:20-15:40	Aurea Grané A compared protocol to improve clustering procedures		KEYNOTE SPEAKER: Roger Guinnerá, Universitat Rovina i Virgili Bayesian symbolic regression and the learnability af closed-form mathematical models			
15:40-16:00	Manuel Soláns Al for vehicle manufacturing sequence controlling.		INTERDISCIPLINARY SESSION: Quercus Hernández An overview of deep learning methods for physics simulations		AI APPLICATIONS IN BIOMEDICINE	
16:00-16:20	Estela Aguilar. Analysis of prediction models to enhance urban bus transportation services through ML techniques		Pilar Garcia-Navarro. Al-driven computational tools and optimization strategies for hydro- morphodynamic risk prediction & climate change analysis	_		
16:20-16:40	Nicolas Béreux. Learning a Restricted Boltzmann Machine using biased Monte Carlo sampling		Gabriel Gomila Scanning dielectric microscopy assisted by machine learning			
16:40-17:00	Francisco Javier López. Analyzing the influence of congestion in user satisfaction: evidence from reviews		Sergio G. Rodrigo Salving differential equations with neural networks			
17:00-17:30	COFFEE BREAK (Lobby I+D Building)		COFFEE BREAK (Torres Quevedo Building)			
17:30-17:50			AI APPLICATIONS IN PHYSICS. Chair person: Pilar García-Navarro Pablo F. Garrido. Humon navigation in VR environments by time series clusterization analysis	17:30-17:50		
17:50-19:10		BIFI COUNCIL (BIFI members only)	Alexandre Wagemakers Deep Learning-based Analysis of Basins of Attraction	17:50-18:10		
	POSTER SESSION Lobby I+D Building		Miguel Ruiz-García. Out-of-equilibrium machine learning: Dynamical loss functions and catastrophic forgetting	18:10-18:30		
	, , , ,		Aurélien Decelle. Bipartite Neural Network: effect of non-linearities in the encoding latent variables	18:30-18:50		
			Gabriel Fernández-Fernández. Learning Minimal Representations of Stochastic Processes with Variational Autoencoders	18:50-19:10		
			SOCIAL DINNER (21:00)	1		