	Wednesday January 17th REGISTRATION OPENING			Friday January 19th		
08:30-08:45			Thursday January 18th			
08:45-09:00						
09:00-09:40	AI METHODS AND APPLICATIONS. Chair person: Pilar Latarre KEYNOTE SPEAKER: Sofia Teixeira, Universidade de Lisboa Exploring AI and Network Science for Mental Health		AI METHOOS AND APPLICATIONS. Chair person: Alberto Aleta KEYNOTE SPEAKER: Miguel Rocha, Universidade do Minho Supervised and generative deep learning models to predict the activity and to design movel compounds and proteins.	AI METHODS AND APPLICATIONS. Chair person: Andreia Sofia Teixeira KEYNOTE SPEAKER: Alex Raydn, University of Comillas Emergent abilities in LLMs: myth or truth?		09:00-09:40
09:40-10:00	INTERDISCIPLINARY SESSION: Luis Martin Moreno An Overview of Applications of Deep Learning in Science		Miguel A. Vela-Tafalla. Genre networks through hyperlinking in science and technology articles written by experts for non-specialized audiences	Joaquín J. Torres Associative Memory in Dissipative Quantum Neural Networks		09:40-10:00
10:00-10:20		n Luis Durán Batalla Keyphrase Extraction with the aid of LLMs	SPONSOR SESSION: Miguel Fajardo, DELL Technologies The Al Boom. A new scenario, a new way of daing things & the role of Dell Tech.	Rafael Tolosana The AloD: The European Al On-Demand Platform and Ecosystem		10:00-10:20
10:20-10:40		Sergio Sabroso uctal 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			Pablo Calvo-Barlés Finding discrete symmetries in data via Machine Learning		Beatriz Seoane, Université Paris-Saclay itatistical Physics of Energy-Based generative models	10:40-11:00
11:00-11:30		DFFEE BREAK Quevedo Building)	COFFEE BREAK (Torres Quevedo Building)	COFFEE BREAK (Torres Quevedo Building)		11:00-11:30
	Al AND STATISTICAL MODELING. Chair person: Ana Cebrián		AI APPLICATIONS IN BIOMEDICINE. Chair person: Beatriz Herquedas	ALAPPLICATIONS IN BIOMEDICINE, Chair person: Noelia Ferruz INTERDISCIPLINARY SESSION: I. Marchante A role for Mt. on contemporary Biomedical research. Jonathan Frazer. Increasing the diagnostic yield of patient sequencing with proteome-scale probabilistic modelling		11:30-11:50
11:30-12:10	KEYNOTE SPEAKER: Paula Gordaliza, Universidad Pública de Navarra & INAMAT2 Ensuring stability in the assessment of algorithmic fairness		KEYNOTE SPEAKER: Noelia Ferruz, Barcelona Institute of Molecular Biology Controllable protein design with unsupervised language models			11:50-12:10
12:10-12:30		lariano Esteban. Modern machine learning methods: a tical models and advanced algorithms	Xavier de la Cruz. When future is now: the rising contribution of Al to the clinical understanding of genetic variability	Helena García-Cebollada Protposer: when machine learning and protein stabilization meet		12:10-12:30
12:30-12:50		N and Statistics for Disease Prevention: , Challenges, and Achievements	Carlo Manzo Decoding Microscopic Dynamics through Groph 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	Ze Predicting depression risl	us Gracia-Tabuenca k in early 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 A! AND STATISTICAL MODELING. Chair person: Gerardo Sanz.			Javier 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 Al: METHODS & APPLICATIONS	
15:00-15:20			AL APPLICATIONS IN PHYSICS, Chair person: Beatriz Secane		AI & STATISTICAL MODELING	
	Fernando Lahoz Analysis of Random Laser signal in tissues for diagnosis Aurea Grané		KEYNOTE SPEAKER: Roger Guimerá, Universitat Rovira i Virgili Bayesian symbolic regression and the learnability			
15:20-15:40	A compared protocol to improve clustering procedures Manuel Soláns		of closed-form mathematical models INTERDISCIPLINARY SESSION: Quercus Hernández		AI APPLICATIONS IN PHYSICS	
15:40-16:00	Al for vehicle manufacturing sequence controlling. Estela Aguilar. Analysis of prediction models to enhance urban bus transportation services		An overview of deep learning methods for physics simulations		AI APPLICATIONS IN BIOMEDICINE	
16:00-16:20	through ML techniques		Pilar García-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 Solving differential equations with neural networks			
17:00-17:30	COFFEE BREAK (Lobby I+D Building)		COFFEE BREAK (Torres Quevedo Building)			
17:30-17:50			ALAPPLICATIONS IN PHYSICS. Chair person: Pilar García-Navarro Pablo F. Garrido. Human navigation in VR environments by time series clusterization analysis	17:30-17:50		
17:50 10:10			Alexandre Wagemakers Deep Learning-based Analysis of Basins of Attraction	17:50-18:10		
	POSTER SESSION Lobby I+D Building	BIFI COUNCIL	Miguel Ruiz-García. Out-of-equilibrium machine learning: Dynamical loss functions and catastrophic forgetting	18:10-18:30		
17:50-19:10	Lobby I+D Building	BIFI COUNCIL	2,			
17:50-19:10	Lobby I+D Building	(BIFI members only)	Aurélien Decelle. Bipartite Neural Network: effect of non-linearities in the encoding latent variables	18:30-18:50		

SOCIAL DINNER (21:00)

18:50-19:10